

CURRICULUM VITAE

NAME: Charles E. Wade, Ph.D.

PRESENT TITLE: James H. "Red" Duke, Jr. M.D. Distinguished Professorship in the Department of Surgery Director, Center for Translational Injury Research (CeTIR)

ADDRESS: The University of Texas Medical School at Houston
6431 Fannin St., MSB 5.204
Houston, TX 77003
Telephone: 713.500.5391
Fax: 713.500.0685
E-mail: Charles.E.Wade@uth.tmc.edu

CITIZENSHIP: USA

UNDERGRADUATE EDUCATION:

1972 A.B., Physical Education, Occidental College, Los Angeles, CA

1975 M.A., Physical Education, University of California, Davis, CA

Ph.D., Biomedical Sciences (Physiology), University of Hawaii School of Medicine, Honolulu, Hawaii

GRADUATE EDUCATION:

POSTGRADUATE TRAINING:

1972 Research Crew, "Vantuna", Moore Laboratory of Biology, Occidental College, Los Angeles, CA

1972 – 1973 Research Associate, Tioga Pass Moore Laboratory of Biology, Occidental College, Los Angeles, CA

1974 Biological Field Technician, Environmental Protection Agency, MT

1975 Research Associate, Department of Physical Education, University of California, Davis, CA

1976 – 1977 Research Associate, Department of Physiology, University of Hawaii, School of Medicine, Honolulu, Hawaii

1979 Physiology Intern, Department of Clinical Investigations, Tripler Army Medical Center Honolulu, Hawaii

1979 Clinical Research Fellow, Tripler Army Medical Center, Honolulu, Hawaii

1979 – 1982 Postdoctoral Fellowship, National Institutes of Health, Department of Physiology, University of California, San Francisco, CA

ACADEMIC & ADMINISTRATIVE APPOINTMENTS:

1985 – 1990 Resident Faculty, Department of Medicine, Letterman Army Institute of Research, Presidio of San Francisco, CA

1985 – 1996 Graduate Faculty, Physiology Graduate Group, University of California, San Francisco, CA

1987 – 1994 Faculty, U.S. Army Joint and Soft Tissue Trauma Fellow, Letterman Army Institute of Research, Presidio of San Francisco, CA

1996 – 2005 Adjunct Professor, Department of Neurobiology, University of California, Davis, CA

1998 – 2005 Graduate Faculty, University of California, Santa Cruz, CA

1998 – 2005 Graduate Faculty, California State University, San Jose, CA

2000 – 2001 NASA-Ames Associate Fellowship, Moffett Field, CA

Clinical Professor, Department of Surgery, The University of Texas Health Science Center, San Antonio, TX

2008 – Present Adjunct Professor, Department of Physiology, The University of Texas Health Science Center, San Antonio, TX

2010 – Present Visiting Professor, Department of Surgery, The University of Texas Medical School at Houston, Houston, TX

2010 – Present Deputy Director, Center for Translational Injury Research, The University of Texas Health Science Center, Houston, TX

HOSPITAL APPOINTMENTS:

LICENSURE:

CERTIFICATION:

PROFESSIONAL ORGANIZATION (AND COMMITTEES AOF THESE):

LOCAL:

REGIONAL:

NATIONAL:

American Association for the Surgery of Trauma (Honorary)

Western Trauma Association

American Burn Association

International Society for Burn Injuries

American Physiological Society

Member, Animal Care and Experimentation Committee, 1991 – 1995

Shock Society – Treasurer 2016-2020

Sigma Xi

Society for Experimental Medicine and Biology

American College of Sports Medicine (Fellow, 1983)

Program Reviewer, American College of Sports Medicine Meeting 1988 – 2002

HONORS AND AWARDS

1984 Employee of the Year in Sciences, Presidio of San Francisco

1989	Department of Army Research and Development Award
1996, 1997	Visiting Scholar, Marine Biology Laboratory, Woods Hole, MA
1990 – 2004	Numerous NASA Performance and Group Achievement Awards
2000 – 2001	NASA-Ames Associate Fellowship
2001	NASA Outstanding Leadership Medal
2003	NASA Exceptional Service Medal
2003	NIH – DoD Working Group on Trauma Research
2007	Order of Military Medical Merit
2010	US Army Greatest Inventors Award
2010	Department of Army Meritorious Civilian Service Award
2011	Meritorious Presidential Rank Award
2016	Bass Research Lecture Tripler Army Medical Center

EDITORIAL POSITIONS

1989 – 1999 Editorial Board, American Journal of Physiology: Regulatory Integrative and Comparative Physiology

1997 – 1999 Editorial Board, American Journal of Physiology: Heart and Circulatory Physiology

1998 – 1999 Editorial Board, Journal of Applied Physiology

2000 – 2006 Editorial Board, Journal of Gravitational Physiology

2005 NIH-HLB External Review of the Resuscitation Outcomes Consortium

2006 – Present Editorial Board, Shock

2011 – Present Editorial Board, Translational Medicine: Current Research

2011 – Present Editorial Board, International Journal of Burns and Trauma

2014 - Present The Journal of Trauma and Acute Care Surgery

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTION, COMMITTEES:

1982 – 1984 Member, Human Use Committee, Letterman Army Medical Center, Presidio of San Francisco, CA

1982 – 1984 Member, Clinical Investigation Committee, Letterman Army Medical Center, Presidio of San Francisco, CA

1985 – 1994 Member, Trauma Advisory Board, U.S. Army Medical Research and Development Command

1985 – 1990 Member, Institution Review Committee, Letterman Army Medical Center, Presidio of San Francisco, CA

1985 – 1990 Member, Radiation Safety Committee, Letterman Army Medical Center, Presidio of San Francisco, CA

1985 – 1990 Member, Animal Use Committee, Letterman Army Medical Center, Presidio of San Francisco, CA

1990 – 1994 Panel on Gravitational Biology, American Institute of Biological Sciences

1991-1993, 1995 – 1998 Chairman, Animal Care and Use Committee, NASA-Ames Research Center, Moffett Field, CA

1998 – 2000 Veterans Administration Merit Grant Reviewer

2000 Grant Reviewer, Office of Naval Research

2003 NIH-DOD Working Group on Trauma Research

2003 Peer Review, NASA Graduate Student Research Program

2003 Peer Review, NASA International Shared Tissue Panel

2003 Peer Review, DARPA BAA Metabolic Dominance Panel

2004 Co-Chair, US Army Trauma Products Line Review

2007 – 2010 Reviewer, Orthopedic Trauma Research Program Grants

2007 – 2016 Reviewer, DoD Congressional Mandated Research Program

2007 – 2016 Reviewer, Director of Defense Research and Engineering National Security Science and Engineering Faculty Fellowship Competition

2010 Internal Review Board Member, Mission Connect PPG Planning Grant

2011 Invited Reviewer, Defense Threat Reduction Agency (DTRA)

**SERVICE ON THE UNIVERSITY OF TEXAS HEALTH SCENTER CENTER AT HOUSTON
COMITTEES:**

2010 - 2011 Intellectual Property Committee

2010 - Present Protection of Human Subjects Committee # 3

2010 - 2011 Mission Connect

2011 - Present Consortium on Aging

2011 - 2012 Bentsen Center Scientific Review Board

2011 - Present Research Conflict of Interest Committee

- Responsible Conduct in Research course for Post Doctoral Certificate Training Program, Fall 2013.

**SERVICE ON THE UNIVERISTY OF TEXAS MEDICAL SCHOOL AT HOUSTON
COMITTEES:**

SERVICE ON GRADUATE SCHOOL COMMITTEES:

SERVICE ON UTMSH AFFILIATED HOSPITAL COMMITTEES:

SERVICE TO THE COMMUNITY:

SPONSORPSHIP OF CANDIDATES FOR POSTRADUATE DEGREE:

SPONSORSHIP OF POSTDOCTORAL FELLOWS

2001 – 2003	Rudy Ortiz, PhD
2001 – 2003	Dan Drobin, MD, PhD
2002 – 2004	Christophe Masseguin, PhD
2003 – 2004	Kristin I. Stanford, PhD
2003 – 2005	Janet Tou, PhD
2004 – 2005	Katherine Radek, PhD
2004 – 2006	David Kauvar, MD
2005 – 2006	Neil McMullin, MD
2005 – 2008	Heather Pidcoke, MD
2006 – 2007	Dan McLaughlin, MD
2006 – 2007	Joe Kelly, MD
2006 – 2007	Amber Ritenour, MD
2007 – 2008	Jason Edens, MD
2007 – 2008	John Simmons, MD
2008 – 2009	Audrey Bergouignan, PhD
2009 – 2010	John Ritchie, MD
2009 – 2010	Vincent Mase, MD
2009 – 2010	Mark Hardin, MD
2009 – 2011	Claire Larson, MD
2009 – 2011	Elizabeth Mann, PhD
2010 – 2011	Luis Santiago-Rosado, MD
2010 – 2012	Maria Del Pilar Huby Vidaurre, MD
2011 – 2012	Juan S. Malo, MD
2013 --2014	Martin Meyer, MD
2011 --2014	Elaheh Rahbar, PhD
2012 --2015	Jessica C. Cardenas, PhD (NIGMS T32 Fellow)
2014 --2015	Lindley Folkerson, MD
2016-Present	Ernesto Lopez, MD
2017-Present	Erika Gonzales, MD

CURRENT TEACHING RESPONSIBILITIES:

MENTORING ACTIVITIES:

Ongoing Research Support

W81XWH-14-1-0112

(PI)

USA Med

Holcomb

09/2014-09/2016

Hemorrhage Control for Major Traumatic Vascular Injuries		\$1,991,317	
Role: Co-Investigator			5%
5U01HL07786 (PI)	May		10/2010-09/2015
National Heart Lung and Blood Institute/ROC		\$51,468,067	
Pragmatic, Randomized Optimal Platelet and Plasma Ratio (PROPPR)			
Role: Co-Investigator (Laboratory Committee)			30%
W81XWH-11-1-0023 (PI)	Wade		02/2011-02/2015
U.S. Army Medical Research		\$1,267,042	
Characterization and Application of a Large Model of Penetrating Ballistic Brain Injury			
Role: Principal Investigator			10%
Emerging Technology Fund (PI)	Cotton/Burgess		09/2008-12/2016
State of Texas		\$4,000,000	
Role: Scientific Investigator			12%
W18XWH-12-2-0074 (PI)	Wolf		09/2012-09/2014
U.S. Army Medical Research/UTSouthwestern		\$36,375	
Checklist and Decision Support in Nutritional Care in Burned Patients.			
Role: Co-			.83%
W81XWH-12-1-0429 (PI)	Enkhbaatar		09/2012-09/2015
U.S. Army Medical Research/UTMB		\$167,628	
Vitamin E Supplementation in Burn Patients.			
Role: Co-			2%

W81XWH-13-1-0489 Wade
 (PI) 09/2013-09/2016
 U.S. Army Medical Research \$664,753
 Combination therapies for the mitigation of musculoskeletal pathologic damage in a novel model of severe injury and disuse.
 Role: PI 5%

W81XWH-13-2-0011 Pamplin
 (PI) 03/2013-03/2015
 U.S. Army Medical Research/USAISR \$127,150
 The Phases of Illness Paradigm (POIP): A checklist centric model to improve patient care in the Burn Intensive Care Unit.
 Role: Col 2%

Selected Completed Research Support

W81XWH-11-2-0068 Cotton
 (PI) 01/2011-12/2013
 U.S. Army Medical Research \$1,500,000
 Evaluation of Lyophilized Plasma (LP) in Model of Vascular Injury and Hemorrhagic Shock
 Role: Co-Investigator

W81XWH-08-C-0712 Wade
 (PI) 09/2009-09/2013
 U.S. Army Medical Research \$165,582
 Hypertonic Saline: Systemic Review and Meta-Analysis of Individual Patient Data
 Role: Principal Investigator

W81XWH-08-C-0712 Rahbar
 (PI) 09/2009-09/2013
 U.S. Army Medical Research \$11,031,496
 Prospective Observational Multicenter Major Trauma Transfusion Study (PROMMTT)
 Role: Co-Investigator

W81XWH-07-1-0299 Cotton
 (PI) 02/2010-09/2013

U.S. Army Medical
Research

\$1,141,774

Early Whole Blood for Patients Requiring Massive Transfusion after Major Trauma. Role: Co-
Investigator

PAST GRANT SUPPORT

Principal Investigator (20% time), Technologies in Metabolic Monitoring – Julia Weaver Fund, A Congressionally Directed Program Jointly Managed by the USA, MRMC, NIH, NASA and the Juvenile Diabetes Research Foundation: 2006 – 2010; \$3,400,000

Co- Investigator (10% time), Early Whole Blood for Patients Requiring Massive Transfusion after Major Trauma – Department of Defense, USAMRMC; 04/2007-06/2013; \$144,421

Co-Principal Investigator (5%time), Vascular and Lymphatic Targeting for the Treatment of Traumatic Injuries – Development and Evaluation in a Swine Model- DARPA 2008 – 2009; \$500,000

Principal Investigator (5% time), Innovative Drugs for the Surviving Blood Lose – MRMC U.S. Army 2008 – 2010; \$1,950,000

Co- Investigator (6% time), Validation of the Athena Wireless Vital Signs Monitor for Use in Prehospital and ED Settings – National Trauma Institute; 03/2009 – 05/2012); \$163,764 (PI – J Holcomb)

Co- Investigator (10% time), Evaluation of Non-Invasive Hemoglobin and Pulse Pressure Variability in Trauma Patients: Clinical Validation of Masimo's Rainbow SET Handheld Oximeter – Naval Health Research Center/BUMED; 10/2010 – 9/2012; \$385,916 (PI – J. Holcomb)

Co- Investigator (2% time), Novel Assessment of Admission Sarcopenia and Nutrition Adequacy in the Injured Elderly Requiring ICU Admission – UT Health Consortium on Aging; (03/2011 – 03/2012); \$11,000 (PI – L. Moore)

Co- Investigator (4% time), Evaluation of Lyophilized Plasma (LP) in Models of Vascular Injury and Hemorrhagic Shock - Department of Defense: USAMRMC; 01/2011-07/2013; \$330,068 (PI – B Cotton)

Principal Investigator (19% time), Hypertonic Saline: Systematic Review and Meta-Analysis of Individual Patient Data – Department of Defense: DMRDP; 09/2009 – 09/2013; \$165,063

Co- Investigator (9% time), Prospective, Observational, Multi-Center Massive Trauma Transfusion study (PROMMTT) - Department of Defense: USAMRMC; 09/2009-09/2013; \$397,622

Co- Investigator (14% time), Screening for Coagulation Abnormalities in Severely Injured Patients - Department of Defense: USAMRMC; 09/2009-09/2013; \$666,667

PUBLICATIONS

ABSTRACTS

(Limited)

1. Tou J, Arnaud S, Brown M, Foley A, **Wade C**. Osteopenic changes induced by ovariectomy or combination unloading and ovariectomy in aged rats. FASEB J October 28, 2006:A1062.
2. **Wade CE**, Dubick MA, Holcomb JB, Sondeen JL. Oxygen delivery: demand ratio is a predictor of survival in hemorrhaged swine with hypotensive resuscitation. FASEB J October 28, 2006 20:A1384.
3. Bowman PD, Sondeen JL, Bynum JA, Vaughan GM, **Wade CE**, Dubick MA. Temporal gene expression analysis of rat jejunum following 40% hemorrhage. FASEB J October 28, 2006 20:A1385.
4. Dover H, Patel OV, Ronca A, **Wade CE**, Plaut K. Global gene expression profiling of key adipogenic tissues in hypergravity-exposed lactating rats. FASEB J April 18, 2007 21:A632.
5. Wu X, Baer LA, **Wade CE**, Walters TJ, Wolf SE. Impact of hindlimb unloading on muscle atrophy after severe burn in rats. FASEB J April 18, 2007 21:A941.
6. Patel OV, Ronca A, **Wade CE**, Plaut K. Prolactin does not play a role in the down-regulation of key lipogenic transcripts in major adipogenic tissues of periparturient rats exposed to hypergravity. FASEB J April 18, 2007 21:A950.
7. **Wade CE**, Baer L. WISE 2005-2006: 60-days of head-down bed rest increases the incidence of menstrual cycle disruption. FASEB J April 18, 2007 21:A951.

8. Baer L, **Wade CE**, Ronca A. Effects of chronic prenatal stress on adult body weight, percent body fat weight and plasma leptin in male rats. FASEB April 18, 2007:A1420.
9. Baer LA, **Wade CE**, Silliman DT, Walkters T, Wolf SE, Wu X. Severe burn and disuse independently contribute to reduction in bone density in rats. FASEB J April 5, 2008 22:1031.1.
10. Baer L, **Wade CE**, Silliman DT, Walters T, Wolf SE, Wu X. Severe burn and disuse independently contribute to reduction in bone density in rats. FASEB J April 5, 2008 22:1205.1.
11. Pidcoke HF, Wolf SE, Jones JA, Holcomb JB, **Wade CE**. Diurnal pattern in endogenous insulin secretion persists in severely injured patients. FASEB J April 5, 2008 22:1205.7.
12. Baer LA, Pidcoke HF, Wu X, Silliman DT, Walters T, Tou J, Wolf SE, **Wade CE**. Insulin therapy effects on bone health in rats following severe burn and disuse. FASEB J April 22, 2009 23:1031.1
13. Baer L, Pidcoke H, Wu X, Silliman D, Walters T, Tou J, Wolf S, **Wade C**. Effects of daily insulin treatment on bone in rats following severe burn and disuse. FASEB J April 6, 2010 24:630.5.
14. Wu X, Xiao Y, Baer LA, Chen Y, Wolf SE, Walters TJ, **Wade CE**. The gene profile of the skeletal muscle in response to burn and hindlimb unloading. FASEB J April 6, 2010 24:1045.13.
15. Cotton BA, Faz G, Hatch Q, Podbielski J, McCarthy, J, Bai Y, **Wade CE**, Kozar RA, Holcomb JB: Rapid thromboelastography (r-TEG) delivers real-time results that predict transfusion within one hour of admission. American Association for the Surgery of Trauma 69th Meeting, Sept 22 – 25, 2010 Boston, MA.
16. **Wade CE**, Mora AG, Shields BS, Pidcoke HF, Baer LA, Chung KK, Wolf SE: Signals from fat metabolism after injury: A metabolomic analysis in the severely burned. American Association for the Surgery of Trauma 69th Meeting, Sept 22 – 25, 2010 Boston, MA.
17. Larson CR, White CE, Wolf SE, Aden J, Park M, **Wade CE**: Preoperative clotting and perioperative transfusion decisions in burns. American Association for the Surgery of Trauma 69th Meeting, Sept 22 – 25, 2010 Boston, MA.
18. Patel S, White CE, Batchinsky A, **Wade CE**, Burns J, Cancio L: Heart rate complexity correlates with lactate and base excess during lethal hemorrhagic shock. American Association for the Surgery of Trauma 69th Meeting, Sept 22 – 25, 2010 Boston, MA.

19. Simmons J, Chung KK, Ritchie JD, Jones JA, Renz EM, Wolf SE, **Wade CE**, Blackbourne LH: Acute kidney injury in burn intensive care unit patients: RIFLE vs. AKIN classifications. American College of Surgeons 96th Annual Clinical Congress, Oct 2-7, 2010 Washington, DC.
20. Mase VJ, Baer DG, **Wade CE**, Eastridge BJ, Walters TW: Admission physiology criteria upon presentation to combat support hospitals: Are current critical vital signs effective? American College of Surgeons 96th Annual Clinical Congress, Oct 2 – 7, 2010 Washington, DC.
21. Ritchie JD, Hardin MO, White CE, **Wade CE**, Larson CR, Eastridge BJ, DuBose J, Blackbourne LH: Prehospital management of traumatic brain injury in combat. American College of Surgeons 96th Annual Clinical Congress, Oct 2 – 7, 2010 Washington, DC.
22. Darlington D, Fedyk C, Scherer M, Delgado A, Concepts K, Kheirabadi B, Pusateri A, **Wade C**, Cap A, Dubick M. Hemodilution effects coagulation of human blood ex vivo. Critical Care Medicine, Crit Care Med 2010 Vol. 38, No. 12 (Supp).
23. Jambhekar A, Mora A, Jones J, **Wade C**, Wolf S. Hypothermic events in a burn ICU increase mortality risks. Crit Care Med 2010 Vol. 38, No 12 (Supp).
24. Hardin M, Rich N, **Wade CE**, Champion HR, White CE, Martin MJ, Rasmussen TE, Pruitt BA, Blackbourne, LH, Eastridge BJ: Rediscovering lesions of wars past: Massive transfusion in Vietnam and current conflicts. Eastern Association for the Surgery of Trauma Annual Scientific Assembly, (Scheduled Jan 25-29, 2011) Naples, FL.
25. Wu X, Baer LA, **Wade CE**, Thomas WJ, Wolf SE. The effect of high protein diet and insulin on the hypermetabolic response after burn and hindlimb unloading in rats. J Burn Care Res March 2011 Vol. 32, No. 2 (Supp).
26. Baer LA, Wu X, Wolf SE, **Wade CE**. Severe burn and disuse effects on fat metabolism over time in rats. J Burn Care Res March 2011 Vol. 32, No. 2 (Supp).
27. Jambhekar A, Mora A, Jones J, Salinas J, **Wade C**, Wolf SE. Biological patterns of temperature variation in patients with severe burns: analysis of the first 28 days. J Burn Care Res March 2011 Vol. 32, No. 2 (Supp).
28. Letourneau P, McManus M, Sowards K, Wang W, Pati S, Matijevic N, **Wade C**, Holcomb J. Aged plasma transfusion increases mortality in a rat model of uncontrolled hemorrhage. 41st Annual Meeting of the Western Trauma Association, (Scheduled Feb 28 – March 5, 2011) Big Sky, Montana.
29. Hatch Q, Osterhous LM, Podbielski J, **Wade CE**, Kozar RA, Holcomb JB, Cotton BA. The impact of closure at the first take-back: Complication burden and potential over-

utilization of damage control laparotomy. 41st Annual Meeting of the Western Trauma Association, (Scheduled Feb 28 – March 5, 2011) Big Sky, Montana.

30. Dubick MA, Barr JL, Baer LA, Wu X, **Wade CE**. Effects of high protein feeding and insulin on liver antioxidant status in rats subjected to burn injury and hindlimb unloading (HU). *FASEB J* March 17, 2011 25:642.2.
31. Baer LA, Wu X, Tou J, Wolf SE, **Wade CE**. Association of bone strength with plasma leptin in rats after severe burn and disuse. *FASEB J* March 17, 2011 25:849.7.
32. Huby M, Salsbury JR, Menge T, **Wade C**, Holcomb JB, Pati S. Intravenous administration of human mesenchymal stem cells (hMSC) improves the parameters of an animal model of acute lung injury induced by hemorrhagic shock. *FASEB J* March 17, 2011 25:827.1
33. Baer LA, Wu X, Pidcoke HF, Wolf SE, **Wade CE**. Increased urine neutrophil gelatinase-associated lipocalin (NGAL) in rats with burns: high association with inflammation but not renal insufficiency. *SHOCK* 2011 Vol. 35 (Supp 1).
34. Huby MP, Pawelczyk NS, Salsbury JR, Baer L, Wang Y, Matijevic N, Letourneau PA, Holcomb JB, **Wade CE**. Blood loss after hemodilution and uncontrolled hemorrhage is a function of pre-injury map and not dilutional coagulopathy. *SHOCK* 2011 Vol. 35 (Supp 1).
35. Matijevic N, Kostousov V, Wang YW, **Wade CE**, Holcomb JB. Hemostatically distinct FFPS equally improve abnormal TEG variables in an in vitro dilutional coagulopathy model. *SHOCK* 2011 Vol. 35 (Supp 1).
36. Radhakrishnan HR, Cotton BA, LeFebvre EM, Shrestha B, **Wade CE**, Holcomb JB. A novel Bayesian algorithm to predict substantial transfusion requirements during the acute trauma resuscitation period. *SHOCK* 2011 Vol. 35 (Supp 1).
37. Cotton BA, Radwan ZA, Matijevic N, Pivalizza E, Podbielski J, Kozar RA, **Wade CE**, Holcomb JB. Admission rapid thrombelastography (R-TEG) predicts development of pulmonary embolism in trauma patients. *AAST* September 2011.
38. Matijevic N, Kostousov V, Wang YW, **Wade CE**, Cotton BA, Holcomb JB. The prevalence of thrombogram-based APC resistant phenotypes among FFP donors. *AAST* 2011, September 2011.
39. Radwan ZA, Matijevic N, Podbielski J, del Junco D, McCarthy JJ, Bia Y, **Wade CE**, Holcomb JB. An emergency department thawed plasma (TP) protocol decreases blood component utilization and improves survival in severely injured patients. *AAST* 2011 September 2011.

40. Adams SD, Cotton BA, **Wade CE**, Kozar RA, Dipasupil E, Podbielski JM, Gill BG, Duke JR, Adams PR, Holcomb JB. Do not resuscitate (DNR) status, but not age affects outcomes in 15,227 trauma patients. AAST 2011, September 2011.
41. Hatch Q, Osterhout LM, Podbielski J, **Wade CE**, Kozar RA, Holcomb JB, Cotton BA. The impact of closure at the first take-back: complication of burden and potential over-utilization of damage control laparotomy. FASEB 2012, February - March 2012.
42. Letourneau P, Mc Manus M, Sowards K, Wang W, Pati S, Matijevic N, **Wade C**, Holcomb J. Aged plasma transfusion increases mortality in a rat model of uncontrolled hemorrhage. FASEB 2012, February – March 2012.
43. Hatch Q, Osterhout LM, Podbielski J, **Wade CE**, Kozar RA, Holcomb JB, Cotton BA. The impact of closure at the first take-back: complication burden and potential over-utilization of damage control laparotomy. FASEB 2012, February - March 2012.

ARTICLES IN PEER REVIEWED JOURNALS

1. Morton M, Maxwell C, **Wade C**. Body size, body composition, and behavior of juvenile Belding ground squirrels. *Great Basin Naturalist* 1974;34(2):121-134.
2. **Wade CE**. The effects of a season's training on the body composition of female college swimmers. *Res Q Am Assoc Health Phys Educ* 1976 May;74(2):292-5.
PMID: 1067646.
3. **Wade CE**, Veghte J. Thermographic evaluation of the relative heat loss by area in man after swimming. *Aviat Space Environ Med* 1977 Jan;48(1):16-8.
PMID: 831705.
4. Dressendorfer R, **Wade CE**, Bernauer E. Combined effects of breathing resistance and hyperoxia on aerobic work tolerance. *J Appl Physiol* 1977 Mar;42(3):444-8.
PMID: 838665.
5. **Wade CE**, Hayashi E, Cashman T, Beckman W. Incidence of dysbaric osteonecrosis in Hawaii's diving fisherman. *Undersea Biomed Res* 1978 Jun;5(2):137-47.
PMID: 675879.
6. **Wade CE**, Dacany S, Smith R. Regional heat loss in man during total body immersion in 25°C degrees water. *Aviat Space Environ Med* 1979 Jun;50(6):590-3.
PMID: 475707.
7. Treffene R, Craven C, Hobbs K, **Wade C.E**. Swimming performance control using plasma lactate and heart rate measurements. *Int Swimmer* 1979 June:19–21.

8. **Wade CE**, Bannister E, Baker D, Lin YC. Absence of the arrhythmic effects of helium in patients with spontaneous premature ventricular beats at rest. *Undersea Biomed Res* 1979 Dec;6(4):313-8. PMID: 538859.
9. **Wade CE**, Claybaugh JR. Plasma renin activity, vasopressin concentration, and urinary excretory responses to exercise in men. *J Appl Physiol* 1980 Dec;49(6):930-6. PMID: 7002889.
10. **Wade CE**, Dressendorfer RH, O'Brien JC, Claybaugh JR. Renal function, aldosterone and vasopressin excretion following repeated long-distance running. *J Appl Physiol* 1981 Apr;50(4):709-12. PMID: 7263354.
11. Dressendorfer RH, **Wade CE**, Amsterdam EA. Development of pseudoanemia in marathon runners during a 20 day road race. *JAMA* 1981 Sept 11;246(11):1215-18. PMID: 7265409.
12. Dressendorfer RH, **Wade CE**, Hornick CE, Amsterdam EA. High-density lipoprotein-cholesterol in marathon runners during a 20 day road race. *JAMA* 1982 Mar 26;247(12):1715-7. PMID: 6121063.
13. Dressendorfer RH, **Wade CE**, Keen CEL, Scaff JH. Blood mineral levels in marathon runners during a 20 day road race. *Physicians in Sports Medicine* 1982;10(6):113-8.
14. **Wade CE**, Dressendorfer RH, O'Brien JC, Claybaugh JR. Overnight basal urinary findings during a 500 km race over 20 days. *J Sports Med Physical Fitness* 1982 Sept;22(3):371-6. PMID: 7162194.
15. Claybaugh, J.R., **Wade C.E.**, Sato A.K., Cucinell S.A., Lane J.C., and Maher J.T. Antidiurectic hormone responses to eucapnic and hypocapnic hypoxia in humans. *J Appl Physiol* 1982 Oct;53(4):815-23. PMID: 6818199.
16. **Wade CE**, Bie P, Kiel LC, Ramsay DJ. Osmotic control of vasopressin in the dog. *Am J Physiol* 1982 Oct;243(4):E287-92. PMID: 7124942.
17. **Wade CE**, Bie P, Kiel LC, Ramsay DJ. Effects of hypertonic intracarotid infusions on plasma vasopressin concentration. *Am J Physiol* 1982 Dec;243(6):E522-6. PMID: 6293311.
18. Dressendorfer RH, **Wade CE**, Scaff JH. Renal function during short-term and -prolonged strenuous exercise in coronary heart disease patients. *Cardiac Rehabil.* 1983;3(8):575.582.

19. Dressendorfer RH, **Wade CE**. Chronic muscle soreness and serum creatinine kinase elevation in long-distance runners. *Physicians and Sports Medicine* 1983;11(5):116-30.

20. Keller-Wood ME, **Wade CE**, Shinsako J, Keil LC, Van Loon G, Dallman MF. Insulin-induced hypoglycemia in conscious dogs: II Effect of maintaining carotid arterial glucose levels on ACTH, epinephrine and vasopressin responses. *Endocrinology* 1983 Feb;112(2):624-32.
PMID: 6293805.

21. Thrasher TN, Moore-Gillon M, **Wade CE**, Keil LC, Ramsay DJ. Inappropriate drinking and secretion of vasopressin after caval constriction in dogs. *Am J Physiol* 1983 Jun;244(6):R850-6.
PMID: 6305215.

22. **Wade CE**, Keil L, Ramsay DJ. Role of volume and osmolality in the control of plasma vasopressin in dehydrated dogs. *Neuroendocrinology* 1983 Nov;37(5):349-53.
PMID: 6358935.

23. Winkel CA, **Wade CE**, Danley DL, McDonald PC, Casey ML. Conversion of progesterone to deoxycorticosterone in guinea pig spleen: an animal model for the study of steroid 21-hydroxylase activity in extra-adrenal sites. *J Steroid Biochem* 1983 Nov;37(5):349-53.
PMID: 6606080.

24. Thrasher TN, **Wade CE**, Keil LC, Ramsay DJ. Sodium balance and aldosterone during dehydration and rehydration in the dog. *Am J Physiol* 1984 Jul;247(1Pt 2):R76-83.
PMID: 6377930.

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BOOKS EDITED

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OTHER PROFESSIONAL COMMUNICATIONS

1990 Symposium Chairman, Pre-Meeting, Shock Society, Durango, CO

1990 Symposium chairman, FASEB Meeting, Washington, DC

1990 Session Chairman, SALT IV, Garmish, FDR

1994 International SALT meeting, Jackson Hole, WY

- 1994 Experimental Biology Meeting, Anaheim, CA
- 1996 Department of Surgery, University of Uppsala, Uppsala, Sweden
- 1996 Bodensee Symposium on Microcirculation, Bodensee, Germany
- 1996 U.S. Military Special Operations Medical Association, North Carolina
- 1996 NATO Surgical Conference, Stockholm, Sweden
- 1997 Swedish Surgical Society, Västerås, Sweden
- 1997 Scandinavian Anesthesiology Meeting, Stockholm, Sweden
- 1997 International Critical Care Meeting, Brussels, Belgium
- 1998 OPRR Animal Use Meeting, Reno, NV
- 1998 Critical Care Medicine Society Meeting, San Diego, CA
- 1998 European Society of Intensive Care Medicine, Stockholm, Sweden
- 1999 Danish Medical Society, Copenhagen, Denmark
- 1999 University Hospital, Lund, Sweden
- 2000 Department of Surgery, University of Uppsala, Uppsala, Sweden
- 2000 International Critical Care Meeting, Brussels, Belgium
Southern Hospital, Stockholm, Sweden
- 2000 Symposium Chair, Experimental Biology San Diego, CA
- 2000 International Union of Physiology, Kyoto, Japan
- 2000 Invited Speaker, Marshall University Medical School, Huntington, WV
- 2000 Office of the Surgeon General, Bonn, Germany
- 2000 NASA Project Management, Virginia Beach, VA
- 2000 Integrative Biology of Space flight, Woods Hole, MA
- 2000 NIH Meeting on Head Trauma, Philadelphia, PA

- 2000 Founders Day Lecturer, Marie Biological Laboratory, Woods Hold, MA
- 2000 European Society of Intensive Care Medicine, Rome, Italy
- 2001 London Universities Intensive Care Meeting, London, England
- 2001 Nordic Consensus Conference on Resuscitation of Patients with Head Trauma, Oslo, Norway
- 2001 Departments of Anesthesiology and Surgery, Söder Hospital, Stockholm, Sweden
- 2001 Departments of Anesthesiology and Surgery, University Hospital, Köln, Germany
- 2001 21st International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium
- 2001 14th International Trauma Anesthesia Critical Care Symposium, San Diego, CA
- 2001 Departments of Anesthesiology and Surgery, Royal Free University, London UK
- 2001 Royal Military Advisory Committee, Edinburg, Scotland
- 2001 International Trauma Care Conference, Edinburg, Scotland
- 2001 U.S. Military Fluid Resuscitation Conference, Washington, DC
- 2001 Departments of Anesthesiology and Surgery, Kings University Hospital, London, UK
- 2001 3rd Current Controversies in Anesthesiology and Peri-Operative Medicine, Dingle, Ireland
- 2001 Fluid Resuscitation in Combat, Toronto, Canada
- 2002 Winter Intensive Care Medicine Symposium, Crans Montans, Switzerland
- 2002 International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium
- 2002 NATA Meeting: Transfusion Alternatives in Transfusion Medicine, Rome, Italy
- 2002 Clinical Research Methodologies in Combat Resuscitation and Casualty Care, Toronto, Canada
- 2003 International Meeting on Adaptive Medicine, San Diego, CA

- 2003 Institute for Surgical Research, San Antonio, TX
- 2003 University of Lisbon, Lisbon, Portugal
- 2003 Continuing Medical Education, Bruges, Belgium
- 2004 World Congress of Anesthesiology, Paris, France
- 2004 Burn, Shock and Trauma Institute, Loyola University, Chicago, IL
- 2006 AstraZeneca Pharmaceuticals, Denmark
- 2006 DARPA Restorative Injury Repair (RIR)
- 2006 Senate/House Armed Services Committee
- 2007 Experimental Design and Statistics in Clinical Research
- 2008 NIH Use of Plasma in Resuscitation, Bethesda, MD
- 2008 Department of Physiology, The University of Texas Health Science Center, San Antonio, TX
- 2009 Surgical Grand Rounds, The University of Texas Health Science Center, San Antonio, TX
- 2009 British Defense Medical Service Department, London, England
- 2009 Congressional Defense Health Board (3 presentations)
- 2009 Veterans Affairs-Brain at War, San Francisco, CA
- 2009 NIH CNS and Glycemic Control, Bethesda, MD
- 2010 Coagulation in Trauma Workshop, Bethesda, MD, Invited Panelist
- 2010 Brain Injury Conference, Galveston, TX, Speaker
- 2010 SHOCK Conference, Portland, OR, Participant in Awards Committee
- 2010 Advanced Technology Applications for Combat Casualty Care (ATACCC), St. Pete, FL, Speaker
- 2010 International Conference on Complexity in Acute Illness (ICCAI), Atlanta, GA, Moderator

2010 American Association for the Surgery of Trauma (AAST), Boston, MA, Speaker

2010 American College of Surgeons (ACS), Washington, DC, Discussant

2010 The University of Texas Medical School Faculty Research Retreat, Houston, TX,
Speaker

2010 The University of Texas Department of Surgery Grand Rounds, Houston, TX, Speaker

2010 Center for Integration of Medicine and Minimally Invasive Therapy (CIMIT), Boston,
MA, Invited Session Leader

2010 Severe Bleeding Workshop, Bethesda, MD, Moderator on the Organization Committee

2011 International Military Fellows Tour of America: "A Conversation with Houston",
Counsel Speaker

VISITING PROFESSORSHIPS

1980 Visiting Assistant Professor, Department of Biology, University of California, Santa
Cruz, CA

2002 Invited Professor, University Pierre & Marie Curie, Paris, France

1996, 1997 Visiting Scholar, Marine Biology Laboratory, Woods Hole, MA