**Mitchell Jay Cohen, MD, FACS**

Home Address: 52 Boulder View Lane

Boulder, CO 80304

Business Address: Department of Surgery

Denver Health Medical Center

777 Bannock Street, Mail Code 0206

Denver, CO 80204

(303) 602-1830

(303) 436-6572 fax

[Mitchell.Cohen@dhha.org](mailto:Mitchell.Cohen@dhha.org)

Current Position: The Bruce M Rockwell Distinguished Chair in Trauma Surgery

Denver Health Medical Center

Professor and Vice Chair of Surgery

Professor of Medicine

Division of Biomedical Informatics and Personalized Medicine

University of Colorado School of Medicine

Date of Birth: November 16, 1969

Place of Birth: Chicago, Illinois

**UNDERGRADUATE AND MEDICAL EDUCATION:**

1991 Brandeis University. Waltham Massachusetts

Bachelor of Arts (Politics, Cum Laude, Distinction in Research)

1997 Mount Sinai School of Medicine. New York, New York

Doctor of Medicine

**POST MEDICAL SCHOOL TRAINING:**

1997-2004 Rush University / Cook County Integrated Surgical Residency. Chicago, Illinois

Surgical Residency

1999-2001 Loyola University Medical Center

Department of Surgery

Burn and Shock Trauma Institute. Maywood, Illinois

Research Fellowship

2004-2006 University of California San Francisco

Department of Surgery

Trauma / Critical Care

San Francisco, California

Fellowship

**MEDICAL LICENSURE:**

1998 - 2004 State of Illinois: No. 036-101139

2004 - 2019 State of California: No. A87597

2019 –Current State of Colorado: No. DR.0057426

**SPECIALTY BOARD CERTIFICATION AND RECERTIFICATION:**

2005 - Current American Board of Surgery 2005

Recertified 2015: Certificate #50556

2005 - Current ABS: Surgical Critical Care 2005

Recertified 2015: Certificate #2191

**PRIOR ACADEMIC/PRACTICE POSITIONS:**

2006-2016 Professor in Residence

Associate Trauma Medical Director

Director of Trauma Research

Department of Surgery

University of California San Francisco

San Francisco General Hospital

San Francisco, California

**PEER REVIEWED GRANTS- ONGOING SUPPORT:**

**1RM1 GM131968-01** Cohen (PI), Silliman (Contact PI) 05/20/2019 – 04/30/2024

NIH/NIGMS  **$11 million**

Resuscitation Strategies for Achieving Thrombo-inflammatory without losing hemostasis or innate immune defense. The central hypothesis is that plasma can be tailored to achieve thrombo-inflammatory homeostasis. Aim 1 Resuscitation hemorrhage-induced coagulopathy and immuno-inflammation: will explore the activation of thrombo-inflammatory serine protease cascades that increase vascular permeability, Aim 2 Allosteric modulation of fibrinolysis mediators – multi-domain Ser-proteases (plasmin interactome): will define and identify the released novels regulators of fibrinolysis into the plasma, Aim 3 LXR signaling and hemmorhagic shock rapidly alter the fibrinolytic phenotype: will define the involvement of liver nuclear responses regulating homeostasis in animals and Aim 4 Metabolic reprogramming drives deranged hemostatic and inflammatory responses after T/HS: will characterize the metabolites that perturb innate immunity.

Role: PI Project 1

**W911NF-10-10384** **(Cohen)**  09/13/2010 – 11/30/2020

DOD **$1.4 million**

Systems Biology of Traumatic Coagulopathy

This study aims to comprehensively characterize the multiple phenotypes of acute traumatic coagulopathy (burn and trauma). Using systems biology approaches we apply modeling techniques to broad clinical and animal data.

Role: PI

**UM1HL120877** (Mann/Esmon/Morrisey) 09/30/2013 – 03/31/2020

NIH/NHLBI **$4,596,600**

Analysis and Characterization of Trauma-Induced Coagulopathy (TACTIC)

In this multi-center, multi-PI study, we hypothesize that traumatic shock and products of traumatic coagulopathy initiate a positive feedback loop between endothelial cells, neutrophils, and platelets that ultimately leads to inflammatory tissue damage and worsening coagulopathy. We specifically postulate that hypoxia and/or complement activation results in priming of endothelial cells resulting in increased expression of cytokines, thrombomodulin (TM) and the Endothelial Protein C Receptor (EPCR) to initiate traumatic coagulopathy. These investigations will focus on mechanisms of endothelial activation and inflammatory signaling, as well as the critical role of neutrophils and platelets in interacting with each other and the activated endothelium.

Role: PI Project 7 ETAG Director

**7UM1 HL120877-05 (Cohen)** 06/01/19 - 05/31/20

NIH/NHLBI                                                                                **$322,084**

Mechanisms of Endothelia Function After Trauma (TACTIC Funded)

This study is funded by TACTIC (UM1 HL120887) however represents a unique sub project to examine the effect of patient plasma samples on endothelia, epithelial, and blood brain barrier integrity by utilizing an in vitro permeability assay that measures trans endothelial electrical resistance. In brief, endothelial, epithelial and BBB (brain endothelial cells co-cultured with glia) will be grown to confluence and treated with plasma from trauma patients to monitor any change in permeability in real time

Role: PI

**UFRA-131 (Manley)**  09/01/2018 – 08/31/2020

NFL  **$11,998**

Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI), an additional bridge funding from National Football League towards completion of U01 NS 086090

The overall goal of the TRACK-TBI Study is to determine the relationship among the clinical, neuroimaging, cognitive, and outcomes assessments in order to understand the pathophysiology of TBI.

Role: Project Co-PI

Site 18 PI

**PEER-REVIEWED GRANTS- COMPLETED:**

**R01HL110969 (Calfee)** 12/15/11-11/30/19

NIH/NHLBI **$386,250**

Cigarette Exposure and Acute Lung Injury after Severe Blunt Trauma

The goal is to determine the biologic effects of cigarette smoke exposure that increase susceptibility to acute lung injury after severe trauma

**U01 NS 086090 (Manley)**  09/01/17-08/31/19

NIH/NINDS **$123,500**

Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI)

The overall goal of the TRACK-TBI Study is to determine the relationship among the clinical, neuroimaging, cognitive, and outcomes assessments in order to understand the pathophysiology of TBI.

**W81XWH-14-2-0176 (Manley)**  09/30/16-09/29/19

DOD AMRMC **$99,870**

TBI Endpoints Development (TED)

The overall goal is to collect clinical, bio-specimen, imaging, and outcome assessments on control subjects with similar socioeconomic backgrounds as the brain injured population enrolled in TRACK-TBI in order to be used to be used as a comparison population.

**R01 HL 128679 (Hu)** 07/20/15-04/20/19

NIH/NHLBI **$531,284**

Develop & Validate Super Alarm to Detect Patient Deterioration with Few False Alarms

Critical care patient monitoring remains unsatisfactory as evidenced by the alarm fatigue problem it has created. We propose to develop a data fusion framework to integrate monitor alarms, laboratory test results, and other non-monitored physiological variables to realize a more precise way of monitoring patients to provide early detection of patient crisis events with few false alarms. Our project will lead to a potentially transformative paradigm change of critical care patient monitoring towards a more integrated and precise system for recognizing crisis events and enabling early interventions and produce a database to the community to propel further development of predictive models.

**R-IMC-1306-02735 (Hubbard)** 09/01/16-03/31/18

PCORI **$946,545**

Semiparametric Causal Inference Methods for adaptive statistical learning in trauma patient-centered outcomes research

The goal of this project is to develop a prediction model of outcomes after trauma by applying the SuperLearner algorithm to existing data sets

**W81XWH-11-2-0028 (Cohen)** 12/27/10-03/31/18

DOD **$895,748**

Systems Biology of Coagulation and Trauma-Induced Coagulopathy

This project investigates multivariate modeling approaches to coagulation perturbations after trauma.

**W911QY-12-C-0044 (Cohen)** 06/30/15-06/29/18

DoD Naval Health Research **$1,142,876**

Systematic Analysis and Assay Testing Trauma-Induced Coagulopathy

The purpose of this project is to develop a comprehensive understanding of the fundamental, highly networked, molecular and physiological processes underlying normal coagulation, and the perturbations of those processes that result in trauma-induced coagulopathy.

**NIH U01 HOL 077863 (Holcomb (PI))**  10/1/10-9/30/15

Prospective, Randomized Optimal Platelet and Plasma Ratios (PROPPR)

This is a multi-center study trial comparing 3 massive transfusion protocols in trauma patients predicted to receive MTs within 24 hours of E.R. admission. Aim 1 – To provide outcome, safety and laboratory data to inform the decision whether or not to conduct a Phase III randomized trial; Aim 1b – Assess the feasibility of collecting blood samples at designated time intervals, testing for coagulation abnormalities, their associations with treatment arms and with clinical outcomes for the purpose of estimating sample size and statistical power for the Phase III trial.

Role: PI

**MEMBERSHIP IN NATIONAL AND INTERNATIONAL SCIENTIFIC ORGANIZATIONS:**

2020 – Present Eastern Association for the Surgery of Trauma, Member

2016 – Present Society for Complexity Acute Illness (SCAI) Member, Board of Directors 2012-Present, President 2016-2019

2015 – 2019 American Association for the Surgery of Trauma (AAST), Multi-Institutional Trials Committee Member 2015-2019, Patient Severity Committee Member 2011-2014, Education and MOC Committee Member 2011-2014, Committee on Branding and Identity Member 2009-2012, AAST Member 2008-Present, Strategic Advisory Board Member 2006-Present

2015 – Present The Pinhead Institute Science Council, Member

2009 – Present Shock Society Member, Program Committee 2018-Present

2007 – Present Western Trauma Association, Member Board of Directors 2018-Present, Multicenter Trials Committee Chair 2015-2018, Publications Committee Member 2009-2015

2006 – Present American College of Surgeons, Fellow

2004 – Present Society of Critical Care Medicine, Member

2001 – 2004 Association of Surgical Educators, Resident Member

2000 – 2005 Society of American Gastrointestinal Endoscopic Surgeons, Candidate Member

**MEMBERSHIP IN LOCAL AND REGIONAL SOCIETIES:**

2017 – Present Denver Surgical Society, Member

2010 – Present San Francisco Surgical Society, Member

2005 – 2014 California Transplant Donor Network, Donor Task Force, Member

2004 – 2014 San Francisco Injury Center, Member

**EDITORIAL BOARD MEMBERSHIPS:**

*Journal of Trauma*, Editorial Board Member

*Journal of Thrombosis and Haemostatis*, Reviewer

*PLoS Computational Biology*, Associate Editor/Reviewer

*Archives of Surgery*, Reviewer

*Injury*, Reviewer

*Transfusion*, Reviewer

*Science Translational Medicine*, Reviewer

*Journal of Trauma*, Reviewer

*Critical Care Medicine*, Reviewer

*PLoS ONE*, Reviewer

*Blood*, Reviewer

*Annals of Surgery*, Reviewer

*Surgery*, Reviewer

**HONORS AND AWARDS:**

2008 – Present Society of Critical Care Medicine, member

2008 – 2010 AAST Hemostasis and Resuscitation Scholarship

2008 – 2013 ACS/NIGMS/AAST Clowes Award

2007 NIH Oral Presentation Award

2006 – 2008 AAST Hemostasis Research Scholarship

2004 Trauma Resident of the Year, Cook County Hospital, Department of Trauma

2004 Senior Teaching Resident of the Year, Rush University, Department of Surgery

2002 Teaching Resident of the Year, Rush University, Department of Surgery

2001 2nd Place Paper, American College of Surgeons, Committee on Trauma, Section VII Resident Paper Competition

2001 1st Place Paper (Basic Science), American College of Surgeons, Committee on Trauma Resident Paper Competition

2000 2nd Place Paper, American College of Surgeons, Committee on Trauma, Section VII Resident Paper Competition

2000 1st Place Paper (Basic Science), American College of Surgeons, Committee on Trauma Resident Paper Competition

2000 2nd Place Paper, Rush Surgical Society, Resident Research Competition

1999 Teaching Resident of the Year, Rush University, Department of Surgery

1999 Alpha Omega Alpha Resident of the Quarter

1998 Intern of the Year, Cook County Hospital, Department of Urology

**PEER REVIEWED PUBLICATIONS:**

1. **Cohen MJ**, Shankar R, Stevenson J, Fernandez R, Gamelli RL, Jones SB: Bone Marrow Norepinephrine Mediates Development of Functionally Different Macrophages Following Thermal Injury and Sepsis. **Ann Surgery**. 2004 Jul (1) 132-41. PMID: 15213629
2. **Cohen MJ,** Schecter WP. Perioperative Pain Control: A Strategy For Management.

**Surg Clin North Am**. 2005 Dec; 85 (6): 1243-57, xi. Review. PMID: 16326205

1. Ikossi DG, Knudson MM, Morabito DJ, **Cohen MJ**, Wan JJ, Khaw L, Stewart CJ, Hemphill C, Manley GT. Continuous muscle tissue oxygenation in critically injured patients: a prospective observational study. **J Trauma**. 2006 Oct; 61(4):780-8; discussion 788-90. PMID: 17033541
2. **Cohen MJ**, Carroll C, He LK, Muthu K, Gamelli RL, Jones SB, Shankar R. Severity of burn injury and sepsis determines the cytokine responses of bone marrow progenitor- derived macrophages. **J Trauma**. 2007 Apr; 62(4):858-67. PMID: 17426540
3. Brohi K, **Cohen MJ**, Ganter MT, Matthay MA, Mackersie RC, Pittet JF. Acute traumatic coagulopathy: initiated by hypoperfusion: modulated through the protein C pathway? **Ann Surg**. 2007 May; 245(5):812-8. PMID: 17457176

1. Ganter MT, Brohi K, **Cohen MJ,** Shaffer LA, Walsh MC, Stahl GL, Pittet JF: Role of the alternative pathway in the early complement activation following major trauma. **Shock**. 2007 Jul; 28(1):29-34. PMID: 17510601
2. **Cohen MJ,** Brohi K, Ganter MT, Mackersie RC, Manley GT, Pittet JF: Early coagulopathy after traumatic brain injury: the role of hypoperfusion and the protein C pathway. **J Trauma**. 2007 Dec; 63 (6) 1254-61; discussion 1261-2. PMID: 18212647
3. Brohi K, **Cohen MJ**, Davenport, RA: Acute coagulopathy of trauma: mechanism, identification and effect. **Curr Opin Crit Care**. 2007 Dec; 13(6): 680-5. PMID: 17975390
4. Ganter MT, **Cohen MJ\*,** Brohi K, Chesebro BB, Staudenmayer KL, Rahn P, Christiaans SC, Bir ND, Pittet JF: Angiopoietin-2 marker and mediator of endothelial activation with prognostic significance early after trauma. **Ann Surg**. 2008 Feb; 247(2):3206. PMID: 18216540

\*Co-First Author

1. Knudson MM, Khaw L, Bullard MK, Dicker R, **Cohen MJ,** Staudenmayer K, Sadjadi J,Howard S, Gaba D, Krummel T: Trauma training in simulation: translating skills from SIM time to real time. **J Trauma**. 2008 Feb; 64 (2): 255-63; discussion 263-4. PMID: 18301184
2. Rosenthal G, **Cohen MJ**, Morabito D, Derugin N, Knudson MM, Manley GT: Hemoglobin Oxygen-carrying Solution, HBOC 201, Improves Resuscitation Parameters and Prevents Secondary Brain Injury in a Swine Model of Traumatic Brain Injury and Hemorrhage. **J Neurosurg**. 2008 Mar; 108(3):575-87. PMID 18312106.
3. Brohi K, **Cohen MJ**, Ganter MT, Schultz MJ, Levi M, Mackersie RC, Pittet JF. Acute Coagulopathy of Trauma: Hypoperfusion Induces Systemic Anticoagulation & Hyperfibrinolysis. **J Trauma**. 2008 May; 64(5) 1211-7; discussion 1217. PMID: 18469643
4. Aleks N, Russell S, Madden M, Staudenmayer K, **Cohen MJ,** Morabito D, Manley GT: Probabilistic Modeling of Sensor Artifacts in Critical Care. **Proceedings of the ICML/UAI/COLT**. 2008
5. Lord C, Ozgediz, D **Cohen MJ:** Image of the Month: Gastrointestinal Stromal Tumor.

**Arch of Surgery**. 2009 Jan; 144(1):87-88. PMID: 19153331

1. Morshed S, Miclau T, Bembom O, **Cohen M**, Knudson MM, Colford JM Jr. Delayed femoral shaft fracture internal fixation reduced mortality among patients with multisystem trauma. **J Bone Joint Surg Am**. 2009 Jan; 91(1); 3-13. PMID: 19122073
2. Wan JJ, **Cohen MJ**, Rosenthal G, Haitsma I, Morabito DJ, Derugin N, Knudson MM, Manley GT: Refining resuscitation strategies using tissue oxygen and perfusion monitoring in critical organ beds. **J Trauma**. 2009 Feb; 66(2):353-7. PMID: 19204507
3. **Cohen MJ**, Brohi K, Calfee CS, Rahn P, Chesebro BB, Christiaans SC, Carles M, Howard M, Pittet JF. Early release of high mobility group box nuclear protein 1 after severe trauma in humans: role of injury severity and tissue hypoperfusion. **Crit Care**. 2009; 13(6):R174. PMID: 19887013
4. Chang CK, Chuter TA, Niemann CU, Shlipak MG, **Cohen MJ**, Reilly LM, Hiramoto JS: Systemic inflammation, coagulopathy, and acute renal insufficiency following endovascular thoracoabdominal aortic aneurysm repair. **J Vasc Surg**. 2009 May; 49(5):1140-6. PMID: 19394543
5. Grossman AD, **Cohen MJ,** Manley GT, Butte AJ. Infection in the Intensive Care Units Alters Physiological Networks. **BMC Bioinformatics**. 2009 Sept 17:10; Suppl 9:S4. PMID: 19761574
6. **Cohen MJ,** Brohi K, Rahn P, Calfee CS, Chesebro B, Christiaans SC, Carles M, Pittet JF. Early Release of HMGB1 After Severe Trauma in Humans: Role of Injury Severity and Tissue Hypoperfusion. **Crit Care**. 2009; 13(6):R174. PMID: 19887013
7. **Cohen MJ**, Bir N, Rahn P, Dotson R, Brohi K, Chesebro BB, Mackersie R, Carles M, Wiener-Kronish J, Pittet JF. Protein C Depletion Early After Trauma Increases the Risk of Ventilator-Associated Pneumonia. **J Trauma**. 2009 Dec; 67(6):1176-81. PMID: 20009664
8. Chesebro BB, Rahn P, Carles M, Esmon CT, Xu J, Brohi K, Frith D, Pittet JF, **Cohen MJ**. Increase in activated protein C mediates acute traumatic coagulopathy in mice. **Shock**. 2009 Dec; 32(6):659-65. PMID: 19333141
9. **Cohen MJ,** Carles M, Brohi K, Calfee CS, Rahn P, Call MS, Chesebro BB, West MA, Pittet JF: Early Release of soluble receptor for advanced glycation endproducts after severe trauma in humans **J Trauma**. 2010 Jun; 68(6):1273-8. PMID: 20539169
10. **Cohen MJ,** Serkova NJ, Wiener-Kronish J, Pittet JF, Niemann CU. 1H-NMR based metabolomic signatures of clinical outcomes in trauma patients-beyond lactate and base deficit. **J Trauma**. 2010 Jul; 69 (1): 31-40. PMID: 20622576
11. Frith D, Goslings JC, Gaarder C, Maegele M, **Cohen MJ**, Allard S, Johansson PI, Stanworth S, Thiemermann C, Brohi K: Definition and drivers of acute traumatic coagulopathy: clinical and experimental investigations. **J Thromb Haemost**. 2010 Sep; 8(9):1919-25. PMID: 20553376
12. Stanworth SJ, Morris TP, Gaarder C, Goslings JC, Maegele M, **Cohen MJ**, Konig TC, Davenport RA, Pittet JF, Johannson PI, Allard S, Johnson T, Brohi K: Reappraising the concept of massive transfusion in trauma. **Crit Care**. 2010 Dec 30; 14(6):R239. PMID: 21192812
13. Knudson MM, **Cohen MJ**, Reidy R, Jaeger S, Bacchetti P, Jin C, Wade CE, Holcomb JB: Trauma, transfusions, and use of recombinant factor VIIa: A multicenter case registry report of 380 patients from the Western Trauma Association. **J Am Coll Surg**. 2011 Jan; 212(1):87-95. PMID: 21115374
14. Xu W, Seok J, Mindrinos MN, Schweitzer AC, Jiang H, Wilhelmy J, Clark TA, Kapur K, Xing Y, Faham M, Storey JD, Moldawer LL, Maier RV, Tompkins RG, Wong WH, Davis RW, Xiao W**;** the Inflammation and Host Response to Injury Large-Scale Collaborative Research Program. Human transcriptome array for high-throughput clinical studies. **Proc Natl Acad Sci USA**. 2011 Mar 1; 108(9):3707-12. PMID: 21317363
15. **Cohen MJ,** West MA: Acute traumatic coagulopathy: From endogenous acute coagulopathy to systemic acquired coagulopathy and Back. **J Trauma** 2011 May; 70(5) (5 Suppl):S47-9. PMID: 21841573
16. Meyer NJ, Li M, Feng R, Bradfield J, Gallop R, Bellamy S, Fuchs BD, Lanken PN, Albelda SM, Rushefski M, Aplenc R, Abramova H,Atochina-Vasserman EN, Beers MF, Calfee CS, **Cohen MJ**, Pittet JF, Christiani DC, O’Keefe GE, Ware LB, May AK, Wurfel MM, Hakonarson H, Christie JD: ANGPT2 Genetic Variant is associated with trauma-associated acute lung injury and altered plasma angiopoietin-2 isoform ratio. **Am J Respir Crit Care Med**. 2011 May 15; 183(10):1344-53. PMID: 21257790
17. Calfee CS, Matthay MA, Eisner MD, Benowitz N, Call M, Pittet JF, **Cohen MJ:** Active and passive cigarette smoking and acute lung injury following severe blunt trauma. **Am J Respir Crit Care Med**. 2011 Jun 15; 183(12):1660-5. PMID: 21471091
18. Wade CE, del Junco DJ, Holcomb JB; Trauma Outcomes Group, Holcomb JB, Wade CE, Brasel KJ, Vercruysse G, MacLeod J, Dutton RP, Hess JR, Duchesne JC, McSwain N, Muskat P, Johannigman J, Cryer HM, Tillou A, **Cohen MJ**, Pittet JF, Knudson P, De Moya MA, Schreiber MA, Tieu B, Brundage S, Napolitano LM, Brunsvold M, Sihler KC, Beilman G, Peitzman AB, Zenait MS, Sperry J, Alarcon L, Croce MA, Minei JP, Kozar R, Gonzalez EA, Stewart RM, Cohn SM, Mickalek JE, Bulger EM, Cotton BA, Nunez TC, Ivatury R, Meredith JW, Miller P, Pomper GJ, Marin B. Variations between Level I Trauma Centers in 24-Hour Mortality in Severely Injured Patients Requiring a Massive Transfusion. **J Trauma**. 2011 Aug;71(2 Suppl 3):S389-93. PMID: 21814110

1. Barbosa RR, Rowell SE, Sambasivan CN, Diggs BS, Spinella PC, Schreiber MA; TheTrauma Outcomes Group, Holcomb JB, Wade CE, Brasel KJ, Vercruysse G, MacLeod J, Dutton RP, Hess JR, Duchesne JC, McSwain NE, Muskat P, Johannigamn J, Cryer HM, Tillou A, **Cohen MJ**, Pittet JF, Knudson P, DeMoya MA, Schreiber MA, Tieu B, Brundage S, Napolitano LM, Brunsvold M, Sihler KC, Beilman G, Peitzman AB, Zenait MS, Sperry J, Alarco L, Croce MA, Minei JP, Kozar R, Gonzalez EA, Stewart RM, Cohn SM, Mickalek JE, Bulger EM, Cotton BA, Nunez TC, Ivatury R, Meredith JW, Pomper GJ, Marin B. A Predictive Model for Mortality in Massively Transfused Trauma Patients. **J Trauma**. 2011 August; 71(2 Suppl 3) S370-374. PMID: 21814106
2. Brown LM, Call MS, Knudson M, **Cohen MJ**, Trauma Outcomes Group, Holcomb JB, Wade CE, Brasel KJ, Vercruysse G, MacLeod J, Dutton RP, Hess JR, Duchesne JC, McSwain NE, Muskat P, Johannigamn J, Cryer HM, Tillou A, Pittet JF, De Moya MA, Schreiber MA, Tieu B, Brundage S, Napolitano LM, Brunsvold M, Brunsvold M, Beilman G, Peitzman AB, Zenait MS, Sperry J, Alarcon L, Croce MA, Minei JP, Kozar R, Gonzalez EA, Stewart RM, Cohn SM, Mickalek JE, Bulger EM, Cotton BA, Nunez TC, Ivatury R, Meredith JW, Miller P, Pomper GJ, Marin B. A Normal Platelet Count May Not Be Enough: The Impact of Admission Platelet Count on Mortality and Transfusion in Severely Injured Trauma Patients: **J Trauma**. 2011 August 9; 71; (2) S337-343. PMID: 21814101
3. **Cohen MJ**, Xu J, Esmon CT: Reducing Congenital Bleeding and Coagulopathy Through Selective Inhibition of Activated Protein C Anticoagulant Activity. **Hematology Reports**. V.3 2011
4. Xu J, Lupu F, Esmon NL, **Cohen MJ**, Tsung A, Ammollo T, Semeraro F, Esmon CT: Sepsis and Cellular Trauma Lead to Histone Mediated Organ Failure and Death. **Hematology Reports**. V.3, 2011
5. Holcomb JB, Wade CE; Trauma Outcomes Group, Brasel KJ, Vercruysse G, MacLeod J, Dutton RP, Hess JR, Duchesne JC, McSwain NE, Muskat P, Johannigamn J, Cryer HM, Tillou A, **Cohen MJ**, Pittet JF, Knudson P, De Moya MA, Schreiber MA, Tieu B, Brundage S, Napolitano LM, Brunsvold M, Sihler KC, Beilman G, Peitzman AB, Zenait MS, Sperry J, Alarcon L, Croce MA, Minei JP, Kozar R, Gonzalez EA, Stewart RM, Cohn SM, Mickalek JE, Bulger EM, Cotton BA, Nunez TC, Ivatury R, Meredith JW, Miller P, Pomper GJ, Marin B. Defining present blood component transfusion practices in trauma patients: papers from the Trauma Outcomes Group. **J Trauma**. 2011 August; 71 (2 Suppl 3):s315-7. PMID: 21814098
6. Holcomb JB, Zarzabal LA, Michalek JE, Kozar RA, Spinella PC, Perkins JG, Matijevic N, Dong JF, Pati S, Wade CE; Trauma Outcomes Group, Holcomb JB, Wade CE, Cotton BA, Kozar RA, Brasel KJ, Vercruysse GA, MacLeod JB, Dutton RP, Hess JR, Duchesne JC, McSwain NE, Muskat PC, Johannigamn JA, Cryer HM, Tillou A, **Cohen MJ**, Pittet JF, Knudson P, DeMoya MA, Schreiber MA, Tieu BH, Brundage SI, Napolitano LM, Brunsvold ME, Sihler KC, Beilman GJ, Peitzman AB, Zenati MS, Sperry JL, Alarcon LH, Croce MA, Minei JP, Steward RM, Cohn SM, Michalek JE, Bulger EM, Nunez TC, Ivatury RR, Meredith JW, Miller PR, Pomper GJ, Marin B. Increased platelet: RBC ratios are associated with improved survival after massive transfusion. **J Trauma**. 2011 August 9; 71; (2). PMID: 21814099
7. Sambasivan CN, Kunio KR, Nair PV, Zink KA, Michalek JE, Holcomb JB, Schreiber MA; Trauma Outcomes Group, Wade CE, Brasel KJ, Vercruysse G, MacLeod J, Dutton RP, Hess JR, Duchesne JC, McSwain NE, Muskat P, Johannigamn J, Cryer HM, Tillou A, **Cohen MJ**, Pittet JF, Knudson P, De Moya MA, Tieu B, Brundage S, Napolitano LM, Brunsvold M, Sihler KC, Beilman G, Peitzman AB, Zenait MS, Sperry J, Alarcon L, Croce MA, Minei JP, Kozar R, Gonzalez EA, Stewart RM, Cohn SM, Bulger EM, Cotton BA, Nunez TC, Ivatury R, Meredith JW, Miller P, Pomper GJ, Marin B.High ratios of plasma and platelets to packed red blood cells do not affect mortality in non-massively transfused patients. **J Trauma**. 2011 August; 71 (2 Suppl 3):s329-36. PMID: 21814100
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