

Megan L. Brenner MD MS FACS

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Education

08/1999 - 05/2003	Medical College of Virginia / Virginia Commonwealth University Richmond, Virginia Medical Degree
08/1997 - 05/1998	Medical College of Virginia / Virginia Commonwealth University Richmond, VA Post-Baccalaureate in Physiology
08/1995 - 08/1997	Virginia Polytechnic Institute and State University, Blacksburg, VA Cardiac Rehabilitation and Exercise Physiology Master of Science
09/1990 - 05/1994	Whittier College, Whittier, CA Chemistry and French Bachelor of Arts

Post-Graduate Training Completion

2014	Vascular Surgery Fellowship University of Maryland Medical Center Baltimore MD
2011	Endovascular Surgery Fellowship Arizona Heart Hospital Phoenix, AZ
2009	Trauma/Surgical Critical Care Fellowship RA Cowley Shock Trauma Center University of Maryland Baltimore, MD
2008	General Surgery Residency UCLA Medical Center/David Geffen School of Medicine Los Angeles, CA

Academic Appointments

2018- present	Professor of Surgery University of California Riverside School of Medicine Loma Linda University School of Medicine Riverside University Health Systems
2015-2017	Associate Professor of Surgery Department of Surgery, Division of Vascular Surgery University of Maryland Medical Center
2015-2017	Associate Professor of Surgery Department of Surgery, Division of Trauma/Critical Care University of Maryland Medical Center

2011-2014	Assistant Professor of Surgery Department of Surgery, Division of Trauma/Critical Care University of Maryland Medical Center
2009-2010	Clinical Instructor Department of Surgery, Division of Trauma/Critical Care University of Maryland Medical Center

Clinical Activities

2018- present	Attending Trauma Surgeon, Department of Surgery Riverside University Health System Medical Center University of California Riverside
2014-2017	Attending Trauma Surgeon Department of Surgery, Division of Trauma/Critical Care Surgery R Adams Cowley Shock Trauma Center
2014-2017	Attending Vascular Surgeon Department of Surgery, Division of Vascular Surgery University of Maryland Medical Center
2009-2012	Attending General Surgeon Acute Care Emergency Surgery Service University of Maryland Medical Center
2009-2012	Attending Trauma Surgeon R Adams Cowley Shock Trauma Center
2009-2012	Attending Surgical Intensivist Multi-trauma Critical Care Unit R Adams Cowley Shock Trauma Center

Leadership Positions/Committees

2019-2021	Western Trauma Association Board of Directors
2017-2018	Western Trauma Association (WTA) Program Committee
2016-present	Creator and Chair, ACS Committee on Trauma (COT) BEST™ Course
2016-2017	Vice-Chair, ACS Maryland Committee on Trauma (COT)
2016-2017	SHOCK Society Diversity Committee
2015-2018	Western Trauma Association (WTA) Publications Committee
2013-2017	University of Maryland School of Medicine Interview Committee Member
2007- 2008	Administrative Chief Resident, UCLA Department of Surgery

Academic Societies

2019-present	Founding Board Member, Southern California ACS Research
2015-present	Member, American Association for the Surgery of Trauma (AAST)
2013-present	Member, Special Operations Medical Association (SOMA)
2012-present	Member, Western Trauma Association (WTA)
2012-present	Member, Eastern Associations for Surgeons in Trauma (EAST)
2011-present	Member, International Society of Endovascular Specialists (ISES)
2011-present	Fellow, American College of Surgeons
2011-present	Lifetime Member, Edward B. Diethrich Vascular Surgery Society
2011-present	Member, Association for Academic Surgery
2007- 2008	W. Longmire Surgical Society, Executive Board Member

Awards

2015-2017	American College of Surgeons COT Future Trauma Leaders Scholarship
2015-2017	EAST Leadership Series Scholarship
2010, 2015, 2016	Shock Trauma Hero Award
2010	R. Alexander MD Competition Participant, EAST Conference
2008	ACS-COT Maryland Paper Competition, 2 nd place, Clinical Science
2006-2007	UCLA Outstanding Student Teaching Award
2004	National Dean's List, 28 th Annual Edition

Licensing/Certification

American Board of Surgery, Vascular Surgery 2015
American Board of Surgery, Surgical Critical Care 2010
American Board of Surgery, General Surgery 2009
Registered Physician in Vascular Interpretation (RPVI) 2014
California Medical License
Maryland Medical License
Counter Narcotics and Terrorism Operational Medical Support (CONTOMS) Medical Director
DEA
ATLS (Advanced Trauma Life Support) Instructor
ATOM (Advanced Trauma Operative Management) Instructor
ASSET (Advanced Surgical Skills for Exposure in Trauma) Instructor
ESTARS (Endovascular Skills for Trauma and Resuscitative Surgery) Instructor
TEAM (Trauma Evaluation and Management) Instructor

Volunteer Experience

08/2016	Field of Play (FOP) Doctor, Olympic Summer Games, Rio de Janeiro
07/2015 - 2017	FBI SWAT, Field Medical Team Member, Baltimore
02/2010, 05/2010	Surgeon, St. Francois de Sales Hospital, Port-au-Prince, Haiti
08/2007 – 09/2007	Mentor, National Youth Leadership Forum

Grant Support

Completed Grants

1. Clinical Study of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) for Severe Pelvic Fracture & Intra-Abdominal Hemorrhagic Shock using Continuous Vital Sign and Video Monitoring.
Department of Defense (DOD)
3/2015-8/2017

Total Direct Costs: \$1 million
Role: PI

2. Physiologic Response to Prolonged Resuscitative Endovascular Balloon Occlusion of the Thoracic Aorta (REBOA) in Swine
Department of Defense (DOD)
5/2016-9/2017
Role: Co-I
Total Direct Costs: \$1 million

Ongoing Grants (University of Maryland)

1. A Phase 2 Study for the Evaluation of Safety and Efficacy of Humacyte's Human Acellular Vessel for Use as a Vascular Bypass or Interposition Vessel in Patients with Limb-threatening Peripheral Arterial Trauma.
Department of Defense (DOD)
08/2017-08/2018
Role: site PI
Total Direct Costs: \$150,000
2. Emergent Truncal Hemorrhage Control Study
Department of Defense (DOD) funded, Prytime Medical Inc. Sponsor
09/2017-04/2019
Role: site PI
Total Direct Costs: \$400,000

Course Director

Chair, Basic Endovascular Skills for Trauma (BEST)[™] Course, American College of Surgeons Committee on Trauma (COT), 2016-present
Creator/Director, Basic Endovascular Skills for Trauma (BEST)[©] Course, University of Maryland Shock Trauma Center 2013-2016

Medical Industry Partnerships

1. Prytime Medical Inc.
Clinical Advisory Board Member
Device development, prototype testing, consulting
2. Aortic Trauma Foundation
Scientific Advisory Board
Consulting, Research
3. Mentice Inc. Endovascular Simulation
Consulting, software development and testing

Patents Pending

Central Pressurized Cadaver Model (CPCM) US and International Patent pending (UMB 2014)

Editor/Editorial Board/Reviewer/Panels

1. Managing Co-Editor, Journal of Endovascular Resuscitation and Trauma Management (JEVTM)
2. National Trauma Institute (NTI)/Coalition for National Trauma Research (CNTR) Acute Resuscitation Research consensus panel member.
3. Editorial Board Review Member, Trauma Surgery and Acute Care Open Journal
4. Ad hoc reviewer: Journal of Trauma and Acute Care Surgery, Journal of Vascular and Interventional Radiology, Annals of Surgery, PLOS ONE, Annals of Vascular Surgery, BMC Surgery, Computer Methods and Programs in Biomedicine, Vascular and Endovascular Surgery

Publications

1. Alfaro Quezada, J., Mustafa, Z., Zhang, X., Zakhary, B., Firek, M., Coimbra, R., & **Brenner, M.** (2020). A Nationwide Study of Intimate Partner Violence. The American surgeon, 3134820964191. Advance online publication.
2. Garcia M, Firek M, Zakhary B, **Brenner M**, Hildebrand F, Coimbra R. Severe Pelvic Fracture in the Elderly: High Morbidity, Mortality, and Resource Utilization. The American Surgeon. October 2020.
3. Finco T, Firek M, Coimbra BC, **Brenner M**, Coimbra R. Lights off, camera on! Laparoscopic cholecystectomy improves outcomes in cirrhotic patients with acute cholecystitis. J Hepatobiliary Pancreat Sci. 2020 Oct 14. Epub ahead of print.
4. Ordoñez CA, Rodríguez F, Orlas CP, Parra MW, Caicedo Y, Guzmán M, Serna JJ, Salcedo A, Zogg CK, Herrera-Escobar JP, Meléndez JJ, Angamarca E, Serna CA, Martínez D, García AF, **Brenner M**. The critical threshold value of systolic blood pressure for aortic occlusion in trauma patients in profound hemorrhagic shock. J Trauma Acute Care Surg. 2020 Sep 9. Epub ahead of print. PMID: 32925582.
5. Smith AD, Hudson J, Moore LJ, Scalea TM, **Brenner ML**. Resuscitative endovascular balloon occlusion of the aorta (REBOA) for temporization of hemorrhage in adolescent trauma patients. J Pediatr Surg. 2020 Aug 15:S0022-3468(20)30585-6.
6. Glaser JJ, Neidert LE, Morgan CG, **Brenner M**, Stigall KS, Cardin S. Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) for Thoracic Trauma in the Setting of Platelet Dysfunction: A Translational Swine Study [published online ahead of print, 2020 Jul 8]. J Trauma Acute Care Surg. 2020
7. Duchesne J, Hörer T, Nilsson K, McGreevy D, DuBose J, Rasmussen T, **Brenner M**, Jacome T, Tatum D. Delta systolic blood pressure (SBP) can be a stronger predictor of mortality than pre-aortic occlusion SBP in Non-compressible Torso Hemorrhage; An ABOTrauma and AORTA Analysis. Accepted to Shock 4/2020
8. **Brenner M**, Moore L, Zakhary B, Schwed A, Cralley A, Romagnoli A, Fpx C, Scalea T, Cothren Burlew C. Scapel or Sheath? Outcomes Comparison Between Pre-Peritoneal Pelvic Packing (PPP) and Angioembolization (AE) for Definitive Hemorrhage Control After REBOA. Accepted to JEVTM 4/2020

9. **Brenner M**, Moore L, DuBose J, Scalea T. Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) for use in Temporizing Intra-Abdominal and Pelvic Hemorrhage: Physiologic Sequelae and Considerations. Accepted to Shock 4/2020
10. Kojima M, Endo A, Zhang X, Shiraishi A, **Brenner M**, Shoko T, Otomo Y, Coimbra R. Effect of Plasma Transfusion Ratio to Red Blood Cells in Geriatric and Non-Geriatric Massively Transfused Trauma Patients: Elderly Patients Benefit Less!" Accepted to J Trauma Acute Care Surg. 3/2020
11. Theodorou CM, Anderson JE, **Brenner M**, et al. Practice, Practice, Practice! Effect of Resuscitative Endovascular Balloon Occlusion of the Aorta Volume on Outcomes: Data From the AAST AORTA Registry. Journal of Surgical Research. 3/2020
12. Kazi A, Finco TB, Zakhary B, Firek M, Gerber A, **Brenner M**, Coimbra R. Acute Colonic Diverticulitis and Cirrhosis: Outcomes of Laparoscopic Colectomy Compared to an Open Approach. J Am Coll Surg. 2020 Mar 27. pii: S1072-7515(20)30260-X. doi: 10.1016/j.jamcollsurg.2020.03.016
13. Tatum D, Duchesne J, Pereira B, Cotton B, Khan M, **Brenner M**, et al. Time to Hemorrhage Control in a Hybrid ER System: Is it Time to Change? Shock. 2020 Mar 19. doi: 10.1097/SHK.0000000000001539. [Epub ahead of print]
14. Ordoñez CA, Rodríguez F, Parra M, Herrera JP, Guzmán-Rodríguez M, Orlas C, Caicedo EY, Serna JJ, Salcedo A, Del Valle AM, Meléndez JJ, Angamarca E, García A, **Brenner M**. Resuscitative endovascular balloon of the aorta is feasible in penetrating chest trauma with major hemorrhage: Proposal of a new institutional deployment algorithm. J Trauma Acute Care Surg. 2020 Aug;89(2):311-319.
15. Glaser J, Neidert L, Morgan C, **Brenner M**, Stigall K, Cardin S. Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) for Thoracic Trauma: A Translational Swine Study. Accepted to JTACS 3/2020.
16. Duchesne J, Taghavi S, Houghton A, Khan M, Perreira B, Cotton B, Tatum D, **Brenner M**, Ferrada P, Horer T, Kauvar D, Kirkpatrick A, Ordonez C, Priouzram A, Roberts D; Damage Control Resuscitation Committee. Prehospital Mortality Due to Hemorrhagic Shock Remains High and Unchanged: A Summary of Current Civilian EMS Practices and New Military Changes. Shock. 2020 Feb 19
17. Hörer TM, Priouzram A, Khan M, **Brenner M**, Cotton B, Duchesne J, Ferrada P, Kauvar D, Kirkpatrick A, Ordonez C, Perreira B, Roberts D; Damage Control Resuscitation Committee. Endovascular Resuscitation and Trauma Management (EVTM) - Practical Aspects and Implementation. Shock. 2020 Feb 19
18. Ordoñez CA, Khan M, Cotton B, Perreira B, **Brenner M**, Ferrada P, Horer T, Kauvar D, Kirkpatrick A, Priouzram A, Roberts D, Duchesne J; And Damage Control Resuscitation Committee. The Colombian Experience in Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA): The Progression from a Large Caliber to a Low-Profile Device at a Level I Trauma Center. Shock. 2020 Jan 21

19. Ribeiro Júnior MAF, Maurício AD, Costa CTK, Néder PR, Augusto SS, Di-Saverio S, **Brenner M**. Expanding indications and results for the use of resuscitative endovascular balloon occlusion of the aorta - REBOA. *Rev Col Bras Cir*. 2019 Dec 20;46(5):e20192334.
20. Coccolini F, Moore EE, Kluger Y, Biffl W, Leppaniemi A, Matsumura Y, Kim F, Peitzman AB, Fraga GP, Sartelli M, Ansaloni L, Augustin G, Kirkpatrick A, Abu-Zidan F, Wani I, Weber D, Pikoulis E, Larrea M, Arvieux C, Manchev V, Reva V, Coimbra R, Khokha V, Mefire AC, Ordonez C, Chiarugi M, Machado F, Sakakushev B, Matsumoto J, Maier R, di Carlo I, Catena F; WSES-AAST Expert Panel. Kidney and uro-trauma: WSES-AAST guidelines. *World J Emerg Surg*. 2019 Dec 2;14:54
21. Garcia M, Gerber A, Zakhary B, Finco T, Kazi A, Zhang X, **Brenner M**, Coimbra R. Management and Outcomes of Acute Appendicitis in the Presence of Cirrhosis: A Nationwide Analysis. *Am Surg*. 2019 Oct 1;85(10):1129-1133.
22. Romagnoli A, DuBose J, **Brenner, M**. Damage Control Vascular Surgery. *Curr Trauma Rep* 5, 146–153 (2019). <https://doi.org/10.1007/s40719-019-00172-8>.
23. Romagnoli AN, Zeeshan M, Joseph B, **Brenner ML**. Utilization of Endovascular and Open Surgical Repair in the United States: A 10-Year Analysis of the National Trauma Databank (NTDB). *Am J Surg*. 2019 Dec;218(6):1128-1133.
24. Bulger EM, Perina DG, Qasim Z, Beldowicz B, Brenner M, Guyette F, Rowe D, Kang CS, Gurney J, DuBose J, Joseph B, Lyon R, Kaups K, Friedman VE, Eastridge B, Stewart R. Clinical use of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) in Civilian Trauma Systems in the United States, 2019: A Joint Statement from the American College of Surgeons Committee on Trauma, the American College of Emergency Physicians, the National Association of EMS Physicians and the National Association of Emergency Medical Technicians. *Trauma Surg Acute Care Open*. 2019 Sep 20;4(1)
25. Pasley J, **Brenner M**, Pasley A, Moore L, Dubose J, AAST AORTA Study Group. Contemporary Utilization of Zone III REBOA For Temporary Control Of Pelvic And Lower Junctional Hemorrhage Reliably Achieves Hemodynamic Stability In Severely Injured Patients. *JEVTM* Vol. 3, No. 2; 2019; pp 56–62
26. Morrison JJ, Dubose JJ, **Brenner M**, Scalea T. A Surgical Endovascular Trauma Service Increases Case Volume and Decreases Time to Hemostasis. *Ann Surg*. 2019 Oct;270(4):612-619.
27. Parra M, **Brenner M**, Rasmussen T, Orlas C, Neto J, Scalea T, Ordonez C. REBOA Consensus: the Pan American Experience. *Pan American Journal of Trauma, Critical Care & Emergency Surgery*. Sept-Dec 7(3) 171-182.
28. Lauerma M, **Brenner M**, Simpson N, Shanmuganathan K, Stein D, Scalea T. Angioembolization Significantly Improves Vascular Injuries in Blunt Splenic Trauma. *Eur J Trauma Emerg Surg*. 2019 Jun 6

29. Lauerman M, **Brenner M**, Simpson N, Shanmuganathan K, Stein D, Scalea T. Extra-parenchymal Splenic Abnormalities Not Vascular Injury Predict Need for Primary Splenectomy. In press, European Journal of Trauma and Emergency Surgery. 2019
30. Adnan SM, Wasicek PJ, Crawford A, Dubose J, **Brenner M**, Scalea TM, Morrison JJ. Endovascular control of pelvic hemorrhage: Concomitant use of resuscitative endovascular balloon occlusion of the aorta and endovascular intervention. J Trauma Acute Care Surg. 2019 Jan;86(1):155-159.
31. Engdahl AJ, Parrino CR, Wasicek PJ, Galvagno SM Jr, **Brenner ML**, Anders MG, Conti B, Rock P, McCunn M. Anesthetic Management of Patients Following Traumatic Injury with Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). Anesth Analg. 2019 Nov;129(5):e146-e149.
32. Wasicek P, Li Y, Yang S, Teeter W, Scalea T, Hu P, **Brenner M**. Examination of Hemodynamics in Patients in Hemorrhagic Shock Undergoing Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). Injury. 2018 Dec 21. pii: S0020-1383(18)30786-1.
33. **Brenner M**, Moore L, Teeter W, Hu P, Yang S, Wasicek P, Taylor J, Harvin J, Stein D, Scalea T. Exclusive clinical experience with a lower profile device for resuscitative endovascular balloon occlusion of the aorta (REBOA). Am J Surg. 2018 Nov 28. pii: S0002-9610(18)30393-3.
34. Zalusky S, Beldowicz B, Salcedo E, Dubose J, Moore L, **Brenner M**. Guidelines for a system-wide multi-disciplinary approach to institutional REBOA implementation. J Trauma Acute Care Surg. 2019 Feb;86(2):337-343
35. Wasicek P, Yang S, Teeter W, Hu P, Stein D, Scalea T, **Brenner M**. Traumatic Cardiac Arrest and Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA): A Preliminary Analysis Utilizing High Fidelity Invasive Blood Pressure Recording and Videography. Eur J Trauma Emerg Surg. 2019 Dec;45(6):1097-1105
36. Teeter W, Bradley M, Romagnoli A, Hu P, Li Y, Stein D, Scalea T, **Brenner M**. Treatment effect or effective treatment? Total Cardiac Compression Fraction and End Tidal CO₂ is higher in patients receiving REBOA compared to RT. Am Surg. 2018 Oct 1;84(10):1691-1695
37. Osborn L, **Brenner M**, Prader S, Moore L. Resuscitative endovascular balloon occlusion of the Aorta: Current evidence. Open Access Emerg Med. 2019 Jan 14;11:29-38
38. Pasley AM, Parker BM, Levy MJ, Christiani A, Dubose J, **Brenner ML**, Scalea T, Pasley JD. Stop the Bleed: does training work one month out? Am Surg. 2018 Oct 1;84(10):1635-1638.
39. Hoehn M, Teeter W, Morrison J, Gamble W, Hu P, Stein D, **Brenner M**, Scalea T. Aortic Branch Vessel Flow During Resuscitative Endovascular Balloon Occlusion of the Aorta. J Trauma Acute Care Surg. 2018 Sep 24. doi: 10.1097/TA

40. Hoehn MR, Hansraj N, Pasley AM, **Brenner M**, Cox S, Pasley J, Diaz JJ, Scalea T. Resuscitative Endovascular Balloon Occlusion of the Aorta for Non-traumatic Intraabdominal Hemorrhage. *Eur J Trauma Emerg Surg*. 2018 Jun 19.
41. Wasicek PJ, Teeter WA, Yang S, Hu P, Hoehn MR, Stein DM, Scalea TM, **Brenner ML**. Life over Limb: Lower Extremity Ischemia in the setting of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). *Am Surg*. 2018 Jun 1;84(6):971-977
42. Ribeiro Junior MAF, Feng CYD, Nguyen ATM, Rodrigues VC, Bechara GEK, de-Moura RR, **Brenner M**. The Complications Associated with Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). *World Journal of Emergency Surgery* (2018) 13:20 <https://doi.org/10.1186/s13017-018-0181-6>
43. Romagnoli AN, Teeter W, Wasicek P, Gamble WB, Hu P, Stein D, Scalea T, **Brenner M**. No wire? No problem: Resuscitative endovascular balloon occlusion of the aorta can be performed effectively and more rapidly with a wire-free device. *J Trauma Acute Care Surg*. 2018 Nov;85(5):894-898. doi: 10.1097/TA
44. Teeter W, Romagnoli A, Wasicek P, Hu P, Yang S, Stein D, Scalea T, **Brenner M**. Resuscitative Endovascular Balloon Occlusion of the Aorta Improves Cardiac Compression Fraction Versus Resuscitative Thoracotomy in Patients in Traumatic Arrest. *Ann Emerg Med*. 2018 Oct;72(4):354-360. doi: 10.1016/j.annemergmed.2018.02.020.
45. Ribeiro M, **Brenner M**, Nguyen A, Feng C, de-Moura R, Rodrigues V, Prado R. Oclusão resuscitativa por meio de balão endovascular da aorta (REBOA): revisão atualizada. *Rev Col Bras Cir*. 2018; 45(1)
46. Pasley JD, Teeter WA, Gamble WB, Wasick P, Romagnoli AN, Pasley AM, Scalea TM, **Brenner ML**. Bringing Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) Closer to the Point of Injury. *J Spec Oper Med*. 2018 Spring;18(1):33-36.
47. **Brenner M**, Perina DG, Bulger EM, et al. Response to letter to the editor from Dubose and colleagues regarding the Joint statement from the American College of Surgeons Committee on Trauma (ACS COT) and the American College of Emergency Physicians (ACEP) regarding the clinical use of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). *Trauma Surgery & Acute Care Open* 2018;3:e000170.
48. Perina DG, Kang CS, Bulger EM, **Brenner ML** et al. Authors' Response to Letter to the Editor by Allen et al regarding Joint statement from the American College of Surgeons Committee on Trauma (ACS COT) and the American College of Emergency Physicians (ACEP) regarding the clinical use of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) by Brenner et al. *Trauma Surgery & Acute Care Open* 2018;3:e000172.
49. **Brenner M**, Bulger EM, Perina DG, et al. Joint statement from the American College of Surgeons Committee on Trauma (ACS COT) and the American College of Emergency Physicians (ACEP) regarding the clinical use of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). *Trauma Surgery & Acute Care Open* 2018;3:e000154.

50. P Wasicek, W Teeter, D Stein, T Scalea, **M Brenner**. Successful and Unsuccessful Blind Placement of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) Catheters Through Damaged Arteries: A Report of Three Cases. JEVTM Vol. 2, No. 1; 2018; pp 17–22
51. P Wasicek, K Shanmuganathan, S Yang, T Scalea, **M Brenner**. Effect of Severe Traumatic Hemorrhage on Large Arterial Diameter as Determined by Computed Tomography (CT). JEVTM Vol. 2, No. 1; 2018; pp 23-25.
52. **Brenner M**, Inaba K, Aiolfi A, DuBose J, Fabian T, Bee T, Holcomb JB, Moore L, Skarupa D, Scalea TM and the AAST AORTA Study Group. Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) may be superior to Resuscitative Thoracotomy (RT) in Select Patients with Hemorrhagic Shock: Early results from the AAST AORTA Registry. J Am Coll Surg. 2018 May;226(5):730-740
53. DuBose J, Fabian T, Bee T, Moore LJ, Holcomb JB, **Brenner M**, Skarupa D, Inaba K, Rasmussen TE, Turay D, Scalea TM; AAST AORTA Study Group. Contemporary utilization of resuscitative thoracotomy: results from the AAST aortic occlusion for resuscitation in trauma and acute care surgery (AORTA multicenter prospective registry. Shock. 2018 Oct;50(4):414-420
54. Glaser J and **Brenner M**. The Current Status of REBOA in Traumatic Shock. Curr Surg Rep (2017) 5: 23.
55. Wasicek PJ, Teeter WA, **Brenner ML**, et al. Resuscitative endovascular balloon occlusion of the aorta: rupture risk and implications for blind inflation. Trauma Surgery & Acute Care Open 2018;3:e000141. doi: 10.1136/tsaco-2017-000141
56. Wasicek P, Shanmuganathan K, Teeter W, Gamble W, Hu P, Stein D, Scalea T, **Brenner M**. Assessment of Blood Flow Patterns Distal to Aortic Occlusion (AO) Using Computed Tomography (CT) in Patients with Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). J Am Coll Surg. 2017 Dec 15. pii: S1072-7515(17)32142-7
57. Williams T, Johnson A, Neff L, Hörer T, Moore L, **Brenner M**, DuBose J, Holcomb J, Todd Rasmussen T. What's in a Name? A Consensus Proposal for a Common Nomenclature in the Endovascular Resuscitative Management and REBOA Literature. JEVTM 2017 Vol. 1, No. 1; 2017; pp 9–12
58. Glaser J and **Brenner M**. The current status of REBOA in traumatic shock. Curr Surg Rep (2017) 5: 23. <https://doi.org/10.1007/s40137-017-0186-1>.
59. Chang R, Fox EE, Greene TJ, Eastridge BJ, Gilani R, Chung KK, DeSantis SM, DuBose JJ, Tomasek JS, Fortuna GR Jr, Sams VG, Todd SR, Podbielski JM, Wade CE, Holcomb JB; NCTH Study Group (**Brenner M**). Multicenter retrospective study of noncompressible torso hemorrhage: Anatomic locations of bleeding and comparison of endovascular versus open approach. J Trauma Acute Care Surg. 2017 Jul;83(1):11-18

60. **Brenner M**, Hicks C. Major Abdominal Trauma: Critical Decisions and New Frontiers in Management. *Emerg Med Clin North Am.* 2018 Feb;36(1):149-160. doi: 10.1016/j.emc.2017.08.012
61. **Brenner M**, Teeter W, Romagnoli A, Hoehn M, Stein D, Scalea T. "Resuscitative endovascular balloon occlusion of the aorta (REBOA) is a feasible option for proximal aortic control in severe hemorrhage and arrest". *JAMA Surg.* 2018 Feb 1;153(2):130-135
62. Romagnoli A, Teeter W, Pasley J, Hu P, Hoehn M, Stein D, Scalea T, **Brenner M**. Time to aortic occlusion: It's all about access. *J Trauma Acute Care Surg.* 2017 Dec;83(6):1161-1164
63. Davidson AJ, Russo RM, Reva VA, **Brenner ML**, Moore LJ, Ball C, Bulger E, DuBose JJ, Moore EE, Rasmussen TE. The Pitfalls of REBOA: Risk Factors and Mitigation Strategies. *J Trauma Acute Care Surg.* 2018 Jan;84(1):192-202
64. Fisher AD, Teeter WA, Cordova CB, **Brenner ML**, Szczepanski MP, Miles EA, Galante JM, DuBose JJ, Rasmussen TE. The Role I Resuscitation Team and Resuscitative Endovascular Balloon Occlusion of the Aorta. *Journal of Special Operations Medicine; J Spec Oper Med.* Summer 2017;17(2):65-73
65. Teeter W, Romagnoli A, Glaser J, Fisher AD, Pasley J, Scheele B, Hoehn M, **Brenner M**. Resuscitative Endovascular Balloon Occlusion of the Aorta: Pushing Care Forward. *Journal of Special Operations Medicine; Spring, 2017, Vol 17, Edition 1*
66. Scheele B, DuBose J, **Brenner M**, and Scalea T. REBOA for Refractory Pelvic Hemorrhage: Preventing Mortality in Potentially Survivable Death after Trauma. *JSM Anat Physiol* 2017 2(1): 1010.
67. Shackford SR, Dunne CE, Karmy-Jones R, Long W 3rd, Teso D, Schreiber MA, Watson J, Watson C, McIntyre RC Jr, Ferrigno L, Shapiro ML, Southerland K, Dunn JA, Reckard P, Scalea TM, **Brenner M**, Teeter WA. The Evolution of Care Improves Outcome in Blunt Thoracic Aortic Injury: A Western Trauma Association Multicenter Study. *J Trauma Acute Care Surg.* 2017 Dec;83(6):1006-1013
68. **Brenner M**, Teeter W, Hadhud M, Hoehn M, O'Connor J, Stein D, Scalea T. Long-term outcomes of thoracic endovascular aortic repair (TEVAR): A single institution's 11-year experience. *Journal of Trauma and Acute Care Surg.* 2017;82: 687–693. **CME article.**
69. Tesoriero R, Bruns B, Narayan M, Dubose J, Guliani S, **Brenner M**, Boswell S, Stein DM, Scalea T. Angiographic Embolization for Hemorrhage Following Pelvic Fracture: Is it "Time" for a Paradigm Shift. *JTACS.* Vol 82;(1),p18-26 January 2017
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71. Teeter WA, Matsumoto J, Idoguchi K, Kon Y, Orita T, Funabiki T, **Brenner ML**, Matsumura Y. Smaller introducer sheaths for REBOA may be associated with fewer complications. JTACS 2016 Dec;81(6):1039-1045.
72. **Brenner M**. Emerging alternatives to lethal pelvic hemorrhage. **Invited Editorial**. JTACS 11/2016. In press.
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100. **Brenner M**, Clayton J, Tillou A, Hiatt J, Cryer HG. "Risk factors for recurrence after surgery for enterocutaneous fistula". Archives of Surgery 2009 Jun;144(6):500-5.
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Chapters

1. Romagnoli A, **Brenner M**. *Vascular Trauma*. Vascular Surgery In-Training Examination Review. Springer, in press 3/2020
2. **Brenner M**, Coimbra R. Thoracic Surgery for the Acute Care Surgeon. Springer 2020.
3. Bogert J, **Brenner M**. *Use of REBOA in the Resuscitation of the trauma patient*. Cameron and Cameron's Current Surgical Therapy 13th Edition. Elsevier in press 9/2019
4. **Brenner M**, Benjamin E. The Atlas of Trauma. Ferrada P (Ed). Springer 2019.

5. Romagnoli A, **Brenner M**. *Principles of REBOA*. Hot Topics in Acute Care Surgery and Trauma. Springer in press 9/2019.
6. Pasley J, **Brenner M**. *Vascular Trauma*.
7. **Brenner M**, Eidt J, Collins J, Bulger E. *Abdominal Vascular Injury*. UpToDate 10/2018
8. Pasley, Hoehn, **Brenner**. *Endovascular techniques, balloons, angioembolization*. The Trauma Manual. Wolters Kluwer Health 2018
9. Hoehn M and **Brenner M**. *Blunt Aortic Injury*. Current Trauma Reports, Springer Nature, in press 2018.
10. **Brenner M** and Scalea T. *New Techniques for Vascular Injuries and Hemorrhage Control*. Hans-Christoph Pape et al. (Eds): Damage Control Management in the Polytrauma Patient. Springer 2017.
11. Kozar R and **Brenner M**. *REBOA for Acute Injury*. AAST Acute Care Surgery Educational Module. 2016
12. **Brenner M** and Dubose J. *New Techniques in Hemorrhage Control*. Scientific American. Edited by D. Spain. 2017
13. **Brenner M** and Hoehn M. *Endovascular Therapy in Trauma*. The Shock Trauma Manual of Operative Techniques. Edited by T.Scalea. Springer New York 2015.
14. **Brenner M** and Davis J. *Damage Control Vascular Surgery*. AAST Acute Care Surgery Educational Module 2015.
15. **Brenner M**, Kozar R, Cryer HG. *Management of Pelvic Fractures with Associated Hemorrhage*. ACS COT TQIP Orthopedic Best Practice Guidelines 2015.
16. Dubose J, **Brenner M**, Scalea T. *Minimally invasive approach and endovascular techniques for vascular trauma*. Trauma Surgery. Edited by S. Di Saverio. Springer-Verlag Italia 2014
17. Shalhub S, **Brenner M**. Chapter 45: *Blunt Abdominal Aortic Injury*. Current Vascular Surgery: 2013. Eskandari, Pearce and Yao, ed. Peoples Medical Publishing House.

International Invited Lectures, Course Leadership

Invited Keynote Speaker, “ED thoracotomies vs ED REBOA”, “History of Damage Control Vascular Surgery”, and BEST Workshop Director, Damage Control Resuscitation Conference/Brazil Trauma Society. Campinas, Brazil 5/2019

Course Co-Chair, Pan American Trauma Pre-Congress Skills Course “Basic Endovascular Skills for Trauma™ Workshop, Cartagena, Colombia 8/2018

Co-Chair, Endovascular Resuscitation and Trauma Management Symposium. Orebro, Sweden. "BEST Course update", "Pelvic hemorrhage and REBOA Zone 3", keynote lecture "Lessons learned: 5 years of REBOA" 6/2018

Course Director, BEST™ Workshop. Lilongwe, Malawi 5/2018

Invited lecture, Pan American Endovascular Resuscitation and Trauma Management Symposium, "BEST Course, past present and future". Mexico City 11/2017

Course Chair, Pan American Trauma Pre-Congress Skills Course "Basic Endovascular Skills for Trauma™ Workshop, Mexico City 11/2017

National Invited Lectures, Course Leadership

Invited Lecture, ACS TQIP, "REBOA: debate (Pro)". Dallas TX 11/2019

Visiting Professor, Mount Sinai Hospital Department of Surgery and Emergency Medicine Grand Rounds "Bridging the gap: endovascular techniques and the Acute Care Surgeon." Miami FL 11/2019

Visiting Professor, UCLA Ronald Reagan Department of Surgery Grand Rounds "Bridging the gap: endovascular techniques and the Acute Care Surgeon." Los Angeles, CA 8/2019

Visiting Professor, Madigan Army Medical Center. "Bringing REBOA closer to the point of injury". Tacoma WA 4/2019

Loma Linda University. Department of Vascular Surgery Grand Rounds. "Bridging the gap: endovascular techniques and the Acute Care Surgeon." 2/2019

Visiting Professor, University of Utah Department of Surgery. "Bridging the gap: endovascular techniques and the Acute Care Surgeon." 2/2019

Invited lectures, Arizona Trauma Symposium, "Surgical Skills Training" and "Blunt Thoracic Aortic Injury update". Phoenix AZ 11/2018

Invited lecture, World Trauma Symposium and National Association of Emergency Medical Technicians Annual Symposium. "Bringing REBOA closer to the point of injury" Nashville TN 10/2018

Invited lecture, American College of Surgeons Trauma Update Course. "REBOA: clinical update" Boston MA 10/2018

Invited Lecture, panel, AAST, "Endovascular simulation training". San Diego CA 11/2018

Invited lecture and BEST Workshop Director, Western Pediatric Trauma Symposium. "REBOA for Pediatric Applications", Park City UT 7/2018.

Invited Lecture, Rao Ivatury Trauma Symposium, "REBOA: Time to rethink the paradigm?", Richmond VA, 2/2018

Invited Lecture, ACS TQIP, "The role of REBOA in management of severe pelvic fractures". Chicago IL 11/2017

University of Arizona/Banner Health. Department of Surgery Grand Rounds. "Bridging the gap: endovascular techniques and the Acute Care Surgeon." Phoenix AZ 10/2017

Course Chair, ACS Clinical Congress Skills Course "Basic Endovascular Skills for Trauma™ Workshop, San Diego CA 10/2017

ACS Clinical Congress Faculty, San Diego CA 10/2017

1. Lecture Title: Balloons for proximal arterial control: When to consider "hybrid" management of vascular injuries. Session: Repair, Ligate, Shunt or Bypass: Physiologic and Anatomic Considerations in Vascular Trauma
2. Panelist: Challenging Trauma Cases: Here and Abroad

Throckmorton Surgical Society, Lou Rodgers Surgical Lecture. Iowa Trauma Symposium. "Bridging the Gap: Endovascular Techniques and the Acute Care Surgeon" and "Blunt Thoracic Aortic Injury". Des Moines, Iowa. 5/2017

Cedars-Sinai Medical Center, Los Angeles. Department of Surgery Grand Rounds. "Bridging the gap: endovascular techniques and the Acute Care Surgeon." 3/2017

18th Oliver H. Beahrs Distinguished Surgical Lecture, Uniformed Services University of the Health Sciences & the Walter Reed National Military Medical Center. "Bridging the Gap: Endovascular Techniques and the Acute Care Surgeon". Bethesda MD 11/2016

SHOCK Society Plenary Session. "Advancing Technology for Aortic Occlusion in Hemorrhagic Shock". Austin TX 6/2016

Memorial Regional Trauma Symposium (FL). "Endovascular Balloon Occlusion of the Aorta (REBOA) for the Management of Non-Compressible Truncal Hemorrhage." Fort Lauderdale FL 1/2016

ACS Point-Counter-Point Conference Lectures 2012-2017:

1. REBOA: The Smaller Catheter Makes it an Even Better Idea
2. Expanded role of endovascular stent placement in traumatic vascular injuries: should general surgeons have this expertise?
3. IVC Filters: is the long-term risk justified by the immediate benefit?
4. Confirmed loss of vital signs upon arrival in the penetrating torso trauma patient: no intervention?
5. The presumed tangential GSW to the abdomen in the unevaluable and hemodynamically stable patient: is there a role for open operative intervention?
6. Intra-aortic Balloon Occlusion during Emergency Laparotomy for Hemorrhagic Shock: Evidence Based?
7. Retroperitoneal hematomas secondary to penetrating trauma: should the dogma that dictates mandatory exploration be challenged?
8. "Hybrid" operating rooms – an update: Has utilization demonstrated improved outcomes?
9. Emergency definitive management of abdominal aortic aneurysm: There should be mandatory flexible sigmoidoscopy within 24 hours?
10. Post-operative complications and "surgical rescue": a need for a designated service (ACS)

11. Computed Tomography contrast extravasation in blunt trauma patients with pelvic fractures: an indication for angioembolization?
12. Resuscitative Endovascular Balloon Occlusion of the Aorta: are the indicators well-established?

ACS Clinical Congress Trauma Update Panel Lectures, 10/2015 and 10/2016

1. REBOA: Clinical Update
2. Techniques and Indications for inflow occlusion in "Damage Control" Resuscitation

Course Chair 2016, ACS Clinical Congress Skills Course "Endovascular Approaches to Hemorrhage Control and Resuscitation"

ACS Clinical Congress General Surgery Board Review Course, Lectures 10/2015

ACS COT TQIP Best Practices: Orthopedics. "Pelvic Fractures – Hemorrhage Control". TQIP Annual Scientific Meeting 11/2015

University of Massachusetts Baystate Medical Center Department of Surgery Grand Rounds. "Bridging the gap: endovascular techniques and the Acute Care Surgeon." 4/2015

Expert Panel Discussion ACS Clinical Congress 2014: "Contemporary Management of Vascular Trauma. Resuscitative Aortic Occlusion for End Stage Shock: When, Where, and How?"

Course Chair, EAST 2014-2017 BEST Course Workshops

University of Maryland Vascular Surgery Symposium Lecturer 5/2013, 5/2014

1. Endovascular Treatment in Trauma Surgery
2. Resuscitative Balloon Occlusion of the Aorta in the Management of Non-compressible Bleeding

Indiana University Trauma Symposium. "Bridging the Gap: Endovascular Techniques and the Acute Care Surgeon". Indianapolis IN 10/2014

EMCrit Podcast 3/2014 "Resuscitative Balloon Occlusion of the Aorta in the Management of Non-compressible Bleeding".

Wake Forest School of Medicine Department of Surgery Grand Rounds: "Basic Endovascular Skills for Trauma: Bridging the gap between endovascular techniques and the Acute Care Surgeon". 4/2014

University of Maryland Department of Surgery Grand Rounds: "Bridging the gap: endovascular techniques and the Acute Care Surgeon". 9/2014

Maryland Regional Vascular Society Annual Conference. "Catheter-Based Interventions in Trauma: Navigating New Territory. Baltimore 5/2013

EAST Plenary Session Lecture "Endovascular Repair Should be the First Line Approach for Traumatic Vascular Injuries". Phoenix AZ 1/2013

University of Texas, Houston, Texas Trauma Institute Symposium. Expert opinion panel on catheter-based hemorrhage control in trauma patients. "How do you avoid a turf battle?" 4/2013

University of Maryland Department of Surgery Grand Rounds. "Catheter-based Interventions in Trauma: Navigating New Territory". 9/2011

Updated 10/23/2020