PUBLICATIONS & PRESENTATIONS

Fiscal Year 2022
1 October 2021 – 30 September 2022

Office of the Chief Scientist
Assigned to
59th Medical Wing

Stationed at
Joint Base San Antonio (JBSA)-Lackland, TX

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December 2022
## October 2021

### Publications:

- **Ghergherehchi CL, Shores JT, Alderete J, Weitzel EK, Bittner GD**  

- **Powell TA, Mysliwiec V, Brock MS, Morris MJ**  

- **Victor A Convertino, Steven G Schauer, Erik K Weitzel, Sylvain Cardin, Mark E Stackle, Michael J Talley, Michael N Sawka, Omer T Inan.**  

- **Phillip M Kemp Bohan, Patrick M McCarthy, Morgan E Wall, Alexandra M Adams, Robert C Chick, Jason E Forcum, Jason S Radowsky, Remalle A How, Valerie G Sams.**  


### Presentations:

- **Mysliwiec, V.**  

- **Abstract:** Lt Col Matthew Brock. The Role of Reproductive Health in Nightmares and PTSD in Active-Duty Military Personnel. Submitted for the COMBAT PTSD Virtual Conference, October 2021.

- **Poster presented virtually at the Military City USA Trauma Collaborative Research Conference [20-21 October 2021].** The poster was made available at the conference website. G. Jilani Chaudry gave a 10-minute virtual oral presentation. This presentation was by invitation of the conference organizers.

- **Zhang, Wensheng.**  

- **Lt Col Willis, Adam M.**  
  Understanding the responses of brain tissue to impulsive loading. Presentation, University of Texas Health Science Center at San Antonio - UT Health San Antonio, 15 Oct 2021.

- **Lt Col Brock, Matthew.**  


• B Villarreal, S Foster, S Hansen, M Brock, H Sanchez, K Gerwell, F Carrizales, A Peterson, K Pruikisma, V Mysliwiec, 0860 Sleep Disorders In Female Military Personnel, Sleep, Volume 43, Issue Supplement-1, April 2020, Pages A327–A328, https://doi.org/10.1093/sleep/zsa056.856


• Maddry JK, Arana AA, Clemons MA, Medellin KL, Shults NM, Perez CA, Savell SC, Gutierrez XE, Reeves LK, Mora AG, Bebarta VS. Impact of a Standardized EMS Handoff Tool on


- Kathleen J Porter, PhD, RD, Rebecca A Krukowski, PhD, Gloribel Bonilla, MPH, Lisa McKenna, MS, Gerald W Talcott, USAF (Ret.), Melissa A Little, PhD, MPH. Using the Socio-ecological Model to Explore Facilitators and Deterrents of Tobacco Use Among Airmen in Technical Training. Military Medicine, February 2021, usab075, https://doi.org/10.1093/milmed/usab075.


- Steven Shroyer, MD, Michael D. April, MD, DPhil, MS, Sumeru Mehta, MD, Brit Long, MD, Gregory Boys, MD, William T. Davis, MD. Derivation and sensitivity validation of a clinical decision tool to predict the need for spinal MRI in non-low risk patients suspected of pyogenic spinal infection. Technical Report, DTIC Accession Number: AD1119266, Report Date: 2021.


- Schauer, Steven G. DO, MS; Ng, Patrick C. MD; April, Michael D. MD, DPhil, Hill, Guyon J. MD; Arana, Allyson A. PhD; Bebarta, Vikhyat S. Pediatric Prehospital Intraosseous Access During Combat Operations in Iraq and Afghanistan. Pediatric Emergency Care: January 2021 - Volume 37 - Issue 1 - p e21-e24. doi: 10.1097/PEC.0000000000001818.


• Maddry, Lt Col Joseph K., Maj Patrick C. Ng, Lt Col Andrew Hall, Capt William T. Davis, Lt Col Ret Nurani M. Kester, Col Vikhyat S. Bebarta, and Col Stacy A. Shackelford. "Global Spider and Scorpion Envenomation Management (CPG ID: 84).” (Feb 2021).


Presentations:


• Talcott, Gerald W. Informing a Population-Level Intervention to Improve the Sleep of Airmen. 55th Annual Meeting of the Association for Behavioral and Cognitive Therapies. Virtual, November 2021.

• Wolf, George, E. Acquired Brain Injury. American College of Hyperbaric Medicine; Grant Rounds Webinar; 19 Nov 2021.

• Mallory A, del Monaco D, Department of Defense (DoD) Partnership in Innovation and Funding Opportunities, 2021 BIOHIVE Summit (BIOUTAH), VIRTUAL, November 12, 2021

December 2021

Publications:


Presentations:
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January 2022

Publications:


• Penn, Alexander H.; Dubick, Michael A.; Torres Filho, Ivo P. Albumin Saturated with Fatty Acids Prevents Decompensation in a Rat Hemorrhagic Shock Trauma Model with Tourniquet and Hypotensive Resuscitation, SHOCK: June 2021 - Volume 55 - Issue 6 - p 832-841. doi: 10.1097/SHK.0000000000001667


Presentations:
- White, T., (2022 January 22). For the blood is the life: A primer and research way forward to support the need for prehospital whole blood. [Virtual Podium Presentation] TriService Nursing Research Program Expeditionary Research Interest Group.

February 2022

Publications:
- Andrea Fiala, Connor Slagle, Nathan Legband PhD, Fariba Aghabaglou, Keely Buesing, MD, Mark Borden, PhD, Seth Harris, DVM, Benjamin Terry, PhD. Treatment of a Rat Model of LPS-Induced ARDS via Peritoneal Perfusion of Oxygen Microbubbles. Journal of Surgical Research, Volume 246, February 2020, Pages 450-456. [https://doi.org/10.1016/j.jss.2019.09.017].
- Patrick C. Ng, Joseph K. Maddry, Vikhyat S. Bebarta, Chapter 3.8 - Cyanide antidotes, Editor(s): Alan D. Woolf, In History of Toxicology and Environmental Health, History of Modern Clinical Toxicology, Academic Press, 2022, Pages 279-286, ISBN 9780128222188, [https://doi.org/10.1016/B978-0-12-822218-8.00034-X].
- Davis WT, Ng PC, Medellin KL, Cutright JE, Araña AA, Strilka RJ, Sorensen DM, Maddry JK. Association of Hypocalcemia with Mortality of Combat Casualties with Brain Injury and Polytrauma Transported by Critical Care Air Transport Teams, Military Medicine, 2022 Feb 17; usac029, [https://doi.org/10.1093/milmed/usac029].
- Kinsey Pebley, Rebecca A. Krukowski, Gerald W. Talcott & Melissa A. Little. Young Adults May Be Engaging in Risky Behaviors with Their E-Cigarettes, Military Behavioral Health, DOI: 10.1080/21635781.2022.2040661. Published online: 22 Feb 2022


Presentations:
- Col Migliore’s Biobehavioral Health RIG presented “Resilience Readiness in Surgical Operative Teams” (recorded) TSNRP RIG Briefings, 10 February 2022.
- Lt Col White presented “For the Blood is The Life” (recorded) TSNRP RIG Briefings, 10 February 2022.
- Lt Col White presenting “Influence of Diet on the Vaginal Microbiome of Pregnant Women”. (recorded) TSNRP RIG Briefings, 10 February 2022.
- Maj Davis, William T. En Route Care considerations for missions involving foreign hospitals. Presentation, TS Combat Casualty Care Curriculum; Virtual; 23 Dec 2021.

March 2022

Publications:


Presentations:

• Lt Col White, Tonya Y. EBP, EDO, and EIRB within DHA: Administrative Processes and Infrastructure Standardization. Presentation, TriService Nursing Research Program (TSNRP) Evidence Based Practice (EBP) Virtual Summit 11 March 2022.

• Lt Col White, Tonya Y. For the Blood is the Life: A Primer and Research Way Forward to Support the Need for Prehospital Whole Blood. Presentation, TriService Nursing Research, Expeditionary Research Interest Group


• Col Weitzel, Erik K. Do I have Sinusitis? Lecture Slides. Presentation, Sin City Laryngology Conference, Las Vegas, NV on 5-7 March 2022.
April 2022

Publications:


- Figlewicz MR1, Constantino K1, Mendez J1, Uhaa N1, Maddray JK2, Schauer SG3. Simulation-Based Assessment of the Novel, Disposable i-view Video Laryngoscope by Emergency Medicine Physicians. Medical Journal (Fort Sam Houston, Tex.), 01 Apr 2022, (Per 22-04/05/06):22-26. PMID: 35373317


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- Savell S, Howard J, VanFosson C, Medellin K, Canacio LC. A Retrospective Cohort Study of Burn Casualties Transported by the US Army Burn Flight Team (BFT) and US Air Force Critical Care Air Transport Teams (CCATT), ECRC, Evidence to Guide Practice to email distribution list of internal stakeholders


Presentations:
• Voelker, Chet R. Determining the Efficacy of Saliva in the Detection of SARS-CoV-2 Using Contrived and Clinical Samples. Presentation, GW Research Showcase, Virtual, April 11 -14 2022
• Migliore, L. (2022, April 19). Mentoring moment: research fundamentals. [Conference Podium Presentation] Scientific Mentorship Panel, TriService Nursing Research Program Evidence Based Practice Dissemination Course, San Antonio, TX, United States.
• White, T., Yoder, L. (2022, April 19). Nurse Anesthetists' Perceptions of Multimodal Training Value. [Poster Presentation] TriService Nursing Research Program Dissemination Course, San Antonio, TX, United States
- Virnig, J., Case, N., Christensen, A., & Hayes, S. (2022, April 19-21). Impact of a Mindfulness Toolkit on Burnout Levels of HCPs at Two Military FHCs. [Conference Poster Presentation] Tri-Service Nursing Research Program Evidence Based Practice Dissemination Course, 19-21 Apr 2022, San Antonio, TX, United States.


**May 2022**

**Publications:**

- Schauer SG, Davis WT, Johnson MD, Escandon MA, Uhaa N, Maddry JK, Naylor JF, Van Arnem KA, April MD. A Prospective Assessment of a Novel, Disposable Video Laryngoscope with Physician Assistant Trainees Using a Synthetic Cadaver Model. Military Medicine, Volume 187, Issue 5-6, May/June 2022, Pages e572–e576, [https://doi.org/10.1093/milmed/usaa537](https://doi.org/10.1093/milmed/usaa537)


- Knutsen, Andrew K. and Vidhate, Suhas and McIlvain, Grace and Luster, Josh and Galindo, Eric J. and Johnson, Curtis L. and Pham, Dzung L. and Butman, John A. and Mejia-Alvarez, Ricardo and Tartis, Michaelann and Willis, Adam M., Characterization of Material Properties and Deformation in the Angus Phantom During Mild Head Impacts Using MRI. Available at


Presentations:

• Maddry JK, Ng P, Cutright J, Mora A, Paciocco J, Management of combat casualties during aeromedical evacuation from a role 2 to a role 3 medical facility, ECRC, Special Operations Medical Association (SOMA), May 2-6, 2022, Raleigh North Carolina

• NG PC, Fernandez-Bustamante A, Kendall JL, Garcia AL, Daley B, Predictive Modeling Including Point-of Care Lung Ultrasound (P-LUS) for Emergency Triage of Patients with Acute Respiratory Symptoms Related to COVID-19, FIERCE, Society for Academic Emergency Medicine, New Orleans, LA, May 10-13, 2022

• Maddry JK, Madelaine PR, Abdurashidov T, Paciocco J, Arana A, Efficacy of a one-day, mannequin-based extracorporeal membrane oxygenation (ECMO) training course in swine (Sus scrofa), ECRC, Society for Academic Emergency Medicine, New Orleans, LA, May 10-13, 2022

• Maddry JK, Ng P, Cutright J, Mora A, Paciocco J, Management of combat casualties during aeromedical evacuation from a role 2 to a role 3 medical facility, ECRC, Society for Academic Emergency Medicine, New Orleans, LA, May 10-13, 2022

• Maddry JK, Paredes M, Paciocco J, Arana A, Perez C, Developing and evaluating an abbreviated extracorporeal membrane oxygenation (ECMO) course for physicians and nurses, ECRC, Special Operations Medical Association Scientific Assembly, Raleigh-Durham, NC, 5/2 - 5/6 2022

• Mancha F, Maddry JK, Schauer SG, An assessment of the effects of pressure infusion with the novel LifeFlow device on porcine (Sus scrofa) blood, STATIC, SOMA 2022, Raleigh, North Carolina, May 2-6, 2022


• Maddry JK, Mora AG, Perez CA, Arana AA, Medellin KL, Improved adherence to best practice ventilation management after implementation of Clinical Practice Guideline (CPG) for United
States military Critical Care Air Transport Teams (CCATTs), CRESTT, Special Operations Medical Association (SOMA), May 2-6, 2022, Raleigh North Carolina


June 2022

Publications:

- Stephanie J Raps, USAF, NC, PhD MSN, RN-BC, Dechang Chen, PhD, Suzanne Bakken, PhD, RN, FAAN, FACMI, Jesus Caban, PhD, Mary B Engler, PhD, RN, MS, FAHA. Baseline eHealth Behaviors of Service Members: A Retrospective, Cross-Sectional Analysis of Patient Portal Use Before the Pandemic. Military Medicine, 29 June 2022, usac168. https://doi.org/10.1093/milmed/usac168.

Presentations:

- A Case-Control Analysis of Stress Fracture on First Enlistment and Healthcare Utilization in USAF Basic Military Trainees from 2012-2015. Lt Col Cubby Gardner, US Army Medical Research and Development Command (USAMRDC); Major Stephanie Raps, 59th Medical Wing; Reid Fisher, University of the Incarnate Word; Theresa Bedford, 711 Human Performance Wing. Presentation 2022 SURF, 16 Jun 2022, San Antonio, TX.
• Military Identity Core Cognitive Content and Implications for Psychological Well-Being. Laurie Migliore, Nursing Research, USAF 59 Medical Wing, Office of the Chief Scientist, Science & Technology, Center for Clinical Inquiry; Jacqueline Killian, 711th Human Performance Wing, W. Patterson Air Force Base. Presentation 2022 SURF, 16 Jun 2022, San Antonio, TX.


• The Impact of Chemotherapy and Immunotherapy on the Efficacy of COVID-19 Vaccination. Matthew Rendo, Hematology Oncology Fellow, Brooke Army Medical Center; Dr. Chung-Ting Kou, Brooke Army Medical Center Hematology and Oncology; Dr. Jason Okulicz, Brooke Army Medical Center Infectious Disease; Dr. Thomas Gibbons; Manuel Caballero, United States Air Force 59th Clinical Research Division; Dr. Joshua Fenderson, Brooke Army Medical Center Hematology and Oncology. Presentation 2022 SURF, 16 Jun 2022, San Antonio, TX.

• PANEL SESSION. Innovation for Commercialization of Military Health Products. Panelist: Christine Burke, Ph.D. Director, Commercialization & Technology Transfer, The University of Texas at San Antonio, John Anthony Fritz, Associate Director of Technology Commercialization, The University of Texas Health Science Center at San Antonio, Lyle Hood, Ph.D., Moderator Assistant Professor in Mechanical Engineering, The University of Texas at San Antonio, Mike Stimson, Senior Counsel, Norton Rose Fullbright US LLP, Scott F. Walter, Ph.D., PE, Director of Technology Transition/Transfer, 59th Medical Wing. Presentation 2022 SURF, 16 Jun 2022, San Antonio, TX.

• Characterizing the Antimicrobial Effectiveness of Novel Nano-Zeolite Metal Formulations against Multiple Pathogenic Bacterial Species In-vitro. Mark Cristner; Sima Norouzi; Shauna Hill, PhD; Amber Mallory, Ph.D., 59th Medical Wing. Poster presentation, 2022 SURF, 16 Jun 2022, San Antonio, TX.


• SARS-Cov-2 Disinfection Using Aersolized Dilute Hydrogen Peroxide (DHP) Technology Dr. Shashank Ganatra, 59th Medical Wing, Texas Biomedical Research Institute; Israel Guerrero-Arguero; Brandon Henry; Siddiqu Rahman Khan, M.D.; Chengjin Ye; Kevin Chiem, Texas Biomedical Research; Dr. Amber Mallory; Diana Del Monaco, 59th Medical Wing; Jordi Torellas; Luis Martinez-Sobrido, Texas Biomedical Research Institute. Poster presentation, 2022 SURF, 16 Jun 2022, San Antonio, TX.

• Incidence and Cost of Treated Respiratory Illness among Active-Duty Military from 2016-2020. Dr. Rose Ramos; Mark Ervin, M.D.; Diane del Monaco, Ph.D.; Corina Zamora, BSc; Amber Mallory, Ph.D., 59th Medical Wing, Office of Science and Technology. Poster presentation, 2022 SURF, 16 Jun 2022, San Antonio, TX.

• Trends in COVID-19 Symptomology within a Military Trainee Population. Dr. Rose Ramos, 59th Medical Wing, Office of Science and Technology; Corina Zamora, BSc; Diana del Monaco, Ph.D.; Angela Osuna, MPH, 559 THLS; Theresa Casey, Ph.D.; Amber Mallory, Ph.D., 59th Medical Wing, Office of the Chief Scientist. Poster presentation, 2022 SURF, 16 Jun 2022, San Antonio, TX.
• Effectiveness of FDA-Cleared Wound Cleansers to Sanitize Surgical Tools and Surfaces in Austere Environments. Kimberly Baker; Melody Sandoval; Perry Blough; Dr. Jason Rall; Mark Ervin; Amber Mallory, 59th Medical Wing. Poster presentation, 2022 SURF, 16 Jun 2022, San Antonio, TX.

• Assessment of Seasonal Indoor Air Quality Trends in a Military Training Complex Dormitory. Corina Zamora; Rosemarie Ramos, Ph.D.; Diana Del Monaco, Ph.D.; Amber Mallory, Ph.D., 59th Medical Wing. Poster presentation, 2022 SURF, 16 Jun 2022, San Antonio, TX.

• Transition of REBOA from Zone 3 to Zone 1 to Treat Cardiovascular Collapse during Continued Hemorrhage in Swine. Dr. Jason Rall; Kimberly Baker; Melody Sandoval; Nola Shepard, 59th Medical Wing. Poster presentation, 2022 SURF, 16 Jun 2022, San Antonio, TX.


• Fabiola Mancha, Joseph K. Maddry, Steven G. Schauer, A pilot assessment of the novel handheld LifeFlow device for rapid infusion of blood products. STRAC-06/28/2022

• Mysliwiec V, Brock M, Pruiksm K, et al. A comprehensive evaluation of sleep disorders in male and female U.S. military personnel. Podium presentation at: SLEEP; June 4-8, 2022; Charlotte, NC.

July 2022

Publications:


• Hendry-Hofer TB, Severance CC, Bhadra S, Ng PC, Soules K, Lippner DS, Hildenberger DM, Rhoomes MO, Winborn JN, Logue BA, Rockwood GA, Bebarta VS. Evaluation of aqueous dimethyl trisulfide as an antidote to a highly lethal cyanide poisoning in a large swine model.


- Solaleh Miar PhD, Benjamin Walters MD, Gabriela Gonzales MS, Ronit Malka MD, Amelia Baker MD, Teja Guda PhD, Gregory R. Dion MD. Augmentation and vocal fold biomechanics in a recurrent laryngeal nerve injury model. Laryngoscope Investigative Otolaryngology. 06 July 2022. https://doi.org/10.1002/lio2.853


- Julie A Rizzo, MD, Nehemiah T Liu, MS, Elsa C Coates, MSN, Maria L Serio-Melvin, MSN, James K Aden, PhD, Jonathan D Stallings, PhD, Kevin N Foster, MD, Kareem R AbdelFatah, MD, FACS, Tam N Pham, MD, Jose Salinas, PhD. The Battle of the Titans—Comparing Resuscitation Between Five Major Burn Centers Using the Burn Navigator. Journal of Burn Care & Research. July 26, 2022, irac095, https://doi.org/10.1093/jbcr/irac095.


**Presentations:**

- Medellin KL, Davis WT, Ng P, Cutright J, Mireles A, Association of hypocalcemia with clinical outcomes of combat casualties with TBI transported by Critical Care Air Transport Teams, ECRC, Tri-Service Nursing Research Program Dissemination Course July 11-15, 2022

Medellin KL, Davis WT, Ng P, Cutright J, Mireles A, Association of hypocalcemia with clinical outcomes of combat casualties with TBI transported by Critical Care Air Transport Teams, San Antonio Universities & Military Research Forum, July 2022


August 2022

Publications:


September 2022

Publications:


Presentations:

Military Health System Research Symposium (MHSRS), September 12-15, 2022, (In person conference)

Podium Presentations:

- Alejandro Bernal, MD, Jennifer M. Hinshaw, MS, Jorge J Pena, BS, Cody Hinshaw, BS, Zachary Homas, BS, Diandra Wood, BS, Kreg A Zimmern, BS, Nick McMahon, MS, Jian Ling, PhD, Margaux M. Salas, PhD, Wensheng Zhang, MD, PhD, Erik K Weitzel, MD. Combination of Local Mesenchymal Stem Cell Therapy and Machine Perfusion Ameliorates Ischemic Tissue Damage During the Ex Vivo Preservation of Porcine Vascularized Composite Allografts. MHSRS-22-05831
• Brendan Beely, RRT1; Daniel Wendorff1; George Harea1; Tomoki Tanaka, MD2; Ryley Zapien1; Cassandra Niemeyer1; Shubhneet Warar1; Isabella Garcia1; Joseph Maddry, MD3; Andriy Batchinsky, MD1. Influence of Oxygenation on Neurodegeneration following Traumatic Brain Injury in a Swine Model. MHSRS-22-05082

• Krystal Valdez-Delgado, BSN, RN, Alejandra Mora, MS, Kimberly Medellin, BSN, RN, Allyson Arana, PhD, Joseph Maddry, MD, Patrick Ng, MD, William Davis, MD. Frequency of use for form fields in en-route critical care medical records to inform electronic health record development. MHSRS-22-05683

• Kim Medellin, BSN, RN; Shelia Savell, PhD; Allyson Arana, PhD; Julie Cutright BSN, RN; Maria Castaneda, MS; Col Vikhyat S Bebarta, MD; Maj William T Davis, MD, Lt Col Joseph K Maddry, MD; Maj Patrick C Ng, MD. EVACUATION OF PATIENTS WITH DISEASE NONBATTLE INJURY BY CRITICAL CARE AIR TRANSPORT TEAMS. MHSRS-22-06484

• Vincent Mysliwiec, MD, Lt Col Matthew S. Brock, MD, Kristi E. Pruiksma, PhD, Casey Straud, PsyD, Daniel J. Taylor, PhD, Lt Col Shana Hansen, MD, LTC Shannon N. Foster, DO, Sarah Zwetzig, PhD, Kelsi Gerwell, PhD, Stacey Young-McCaughan, RN, PhD, MAJ Tyler Powell, MD, Maj John A. Blue Star, PhD, Lt Col Daniel G. Cassidy, PhD, Jim Mintz, PhD, Sara M. Mithani, PhD, Alan L. Peteron, PhD, on behalf of the STRONG STAR Consortium. A Comprehensive Evaluation of Sleep Disorders in Male and Female U.S. Military Personnel. MHSRS-22-05121

• Cara E. Hojnoski, John W. Kieffer, Theresa M. Casey, Angela B. Osuna, Brian G. Casleton, Jason F. Okulicz, Joseph E. Marcus. Evaluation of Care of Military Blood Donors Screening Positive for Syphilis. MHSRS-22-05625

• Alexander H. Penn, PhD, Michael J. Falabella, Orlando Hernandez, BS, Kassandra McFadden, MS, Jack Hutcheson, PhD. Human Serum Albumin for Resuscitation Following Hemorrhage in Rats Causes Hemolysis and Improves Hemodynamics Similar to Oleic Acid-Saturated Bovine Serum Albumin. MHSRS-22-05418

• Erik K. Weitzel, MD. Development of a Sustainment Training Paradigm for En route Critical Care: A Collaboration between the 59th MDW and the Texas Air National Guard. MHSRS-22-07171

• Timothy Tran, MD, Juliana Wilson, DO, Mathew Riscinti, MD, Mikita Fuchita, MD, John Kendall, MD, Patrick Ng, MD, Ana Fernandez-Bustamante, MD, PhD. Inter-Rater Reliability for the Pragmatic Evaluation of Point of Care Lung Ultrasound for the Triage of COVID-19 Patients Using a Simple Scoring Matrix. MHSRS-22-06219

• S. Rachel Kennedy, PhDr, MPH, RN, Ian Stanley, PhD, Bonnie J. Siry-Bove, MSS, Megan Johnson, MBA, Lauren Meador, MPH, Maj Rodney Ho, PhD, MPH, PA-C, Marian E. Betz, MD, MPH. A Military Health System Intervention for Firearm Suicide Prevention: Findings from the Formative Phase. MHSRS-22-07015

• David J. Douin, MD; Layne Dylla, MD, PhD; Erin L. Anderson, RN; Jessica Cwik, BS; Aimee Steinwand, BS; MAJ Steven G. Schauer, DO, MS; John D. Rice, PhD; Conner Jackson, MS; Alex Cheng, PhD; Wesley H. Self, MD, MPH; Mayur Patel, MD; Pratik Doshi, MD; Charles Wade, PhD; Michael Goodman, MD; Jason McMullen, MD; Dario Rodriguez, RRT; Col Vikhyat S. Bebarta, MD; Adit A. Ginde, MD, MPH. Strategy to Avoid Excessive Oxygen (SAVE-O2) in Critically Ill Trauma Patients: A Multicenter Cluster-Randomized, Stepped Wedge Trial for Targeted Normoxia. MHSRS-22-06264

• Jason Thomas, MD, Michal Sobieszczyk, MD, Whitteny Warren, DO, Nicholas Villalobos, MD, Erik Manninen, MD, Robert Walter, MD, Valerie Sams, MD, Terence Lonergan, MD, Phillip Mason, MD, Erika R. O’Neil, MD. COVID-19 ECMO and Right Ventricular Failure: Lessons Learned and Standardization of Management. MHSRS-22-06831

• Karen L. Weis, PhD, RNC-OB, Katherine C. Walker-Rodriquez, MSN, RN, Wenyaw Chan, PhD, Meagan Peterson, DNP, CNM, Tony T. Yuan, PhD, and Monica Lutgendorf, MD, CDR, MC USN. Prenatal Mentoring Intervention Fosters Improved Pregnancy Outcomes at Three Major Military Installations. MHSRS-22-05830

• Steven G Schauer, DO, MSCR, Ashley D Tapia, BS, Ian L. Hudson, DO, MPH, Erika A Jeschke, PhD, Jessica Mendez, BS, Mireya A Escandon, BS, Nguyan Uhaa, LVN, Michael D April, MD, DPhil, MSc, Robert A De Lorenzo, MD, MSM, MSC. A mixed methods end-user assessment to determine the ideal supraglottic airway device for inclusion into the medic’s aid bag. MHSRS-22-05876

• Kevin W Gibbs, MD, Jonathan D. Casey, MD MSc, Matthew E Prekker, MD MPH, Matthew W. Semler, MD MSc, Maj Brit J Long, MD, MAJ Steven Schauer, DO MS5, Adit A Ginde, MD MPH. Pragmatic Trial Examining Oxygenation prior to Intubation (PREOXI) Trial: A Planned Multicenter Randomized Clinical Trial of Preoxygenation Strategies. MHSRS-22-06964

• Matthew Prekker, MD, Brian Driver, MD, Stacy Trent, MD, Maj Brit Long, MD, MAJ Steven Schauer, DO, Jonathan Casey, MD, Matthew Semler, MD, Adit Ginde, MD. Direct Versus Video Laryngoscope (DEVICE) Trial: A Planned, Multicenter, Randomized Clinical Trial in Emergency Departments and Intensive Care Units. MHSRS-22-07078


• Amanda M. Staudt, PhD, Jennifer D. Trevino, MBA, Julie E. Cutright, BSN, RN, April A. Chase, MSN, RN, FNP-BC, Beatrice T. Stephens, BSN, MA, Martin Schreiber, MD, Andrew Cap, MD, Jennifer M. Gurney, MD. Deployed Hemostatic Emergency Resuscitation of Traumatic Exsanguinating Shock (HEROES) Data Abstraction Tool Development. MHSRS 2022 presented September 12-15, 2022.

**Poster Presentations:**

• Patrick Ng, MD, Christopher Bennett, BS, Krystal Valdez-Delgado, BSN, Krishna Constantino, MD, Maria Castaneda, MS, Dylan Rodriguez, BS, Shelia Savell, PhD, RN, Allyson Arana, PhD. A Prehospital Feasibility Assessment of a Lightweight, Durable,

• Annette R. Rodriguez, PhD, Joseph Macaitis, MS, Bridney D. Lundquist, BS, Jenny Mendez, MS, Col. Wen Lien, DMD, CDR Drew Havard, DMD, Melissa Grunlan, PhD, Alexander J. Burdette, PhD, Heuy-Ching Wang, PhD. Angiogenesis Assessment of an 8mm Critical Size Bone Defect with Implantation of a Novel Shape Memory Polymer Scaffold in a Sprague Dawley Rat Model. MHSRS-22-06480

• Alejandro Bernal, MD, Casey Sabbag, MD, Julia A.V. Nuelle, MD, Cody J. Hinshaw, BS, Jennifer M. Hinshaw, MS, Cathy Yang, PhD, Margaux M. Salas, PhD, Wensheng Zhang, MD, PhD, George Bittner, PhD, Jaimie Shores, MD, Erik K. Weitzel, MD, Joseph F. Alderete, MD. A Translational Porcine Model for Polyethylene Glycol Fusion-Based Therapies in Nerve Reconstruction After Large-Gap Peripheral Nerve Injury. MHSRS-22-05836

• Cubby Gardner, PhD, Stephanie Raps, PhD, Reid Fisher, EdD, Theresa Bedford, PhD. A Case-Control Analysis of Stress Fracture on First Enlistment and Healthcare Utilization in USAF Basic Military Trainees from 2012 to 2015. MHSRS-22-07363

• Kimberly Baker, Melody Sandoval, Perry Blough, Jason Rall, PhD, Mark Ervin, MD, Amber Mallory, PhD. Effectiveness of FDA-Cleared Wound Cleansers to Sanitize Surgical Tools and Surfaces in Austere Environments. MHSRS-22-05863

• Shelia C Savell, PhD, RN; Jeff T Howard, PhD; LTC Christopher A Van Fosson, PhD, RN; Kimberly L Medellin, BSN, RN; Amanda M Staudt, MPH, PhD; LTC Julie A Rizzo, MD; Lt Col Joseph K Maddry, MC, USAF; Leopoldo C Cancio, MD. A Retrospective Cohort Study of Burn Casualties Transported by the US Army Burn Flight Team (BFT) and US Air Force Critical Care Air Transport Teams (CCATT). MHSRS-22-05161

• Stephanie A Richard, PhD, MHS, Christina Schofield, MD, Limone Collins, MD, Christina Spooner, MS, Srihari Seshadri, MBBS, PhD, MPH, Anuradha Ganesan, MD, Wesley Campbell, MD, MTM&H, David Hrncir, MD, Tahaniyat Lalani, MBBS, MHS, CDR Tyler Warkentien, MD, MPH, Katrin Mende, PhD, LTC Ana E Markelz, MD, CDR Catherine M. Berjohn, MD, Daniel Libraty, Bruce McClenathan, MD, Jitendrakumar R Modi, MD, Alan Williams, MD, CAPT Timothy H Burgess, MD, MPH, Rhonda E Colombo, MD, MHS. Pathogen Coinfections and Trends in Influenza-like Illness in PAIVED. MHSRS-22-06151

• Maj William T. Davis, MD, MPH; Kimberly L. Medellin, BSN, RN; Julie E. Cutright, BSN, RN; Julie E. Cutright, BSN, RN; Allyson A. Arana, PhD; Col Richard Strilka, MD; Lt Col Derek Sorensen, MD; Lt Col Joseph K. Maddry, MD; Shelia C Savell, PhD, RN; Maj Patrick C. Ng, MD. Hemodynamic Trends during Air Transport of Critically Ill Combat Wounded with Brain Injury. MHSRS-22-05218

• Mark Cheney, MD, Josh Burkhardt, MD, Tyler Davis, MD, Daniel Brown, MD, Jonathan Hare, RN, Ryan Earnest, MD, Michael Goodman, MD, Timothy Pritts, MD, PhD, Richard Strilka, MD, PhD. Ability of Military Critical Care Air Transport Teams to Visually Estimate Percent Systolic Pressure Variation: Does CCATT Need to Modernize? MHSRS-22-05220

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