

BREAKOUT SESSIONS Tuesday ,4 August 2026					
Breakout Session Time	Breakout Session Name	Speaker Presentation Time	Presentation Title	MHSRS Number	Presenter
Two Hour Session 0800 - 1000	Platform Technologies: Revolutionizing Infectious Disease Countermeasures for the Military Appavu K. Sundaram, Ph.D. John Dye, Ph.D. Moderators	0800 - 0815	Rapid Discovery & US-Based Manufacturing of Diagnostic & Prophylactic Antibody Countermeasures	MHSRS-26-4401	Hong Qi, Ph.D.
		0815 - 0830	Nanolipoprotein Particles as Delivery Vehicles for Infectious Disease Countermeasures	MHSRS-26-4083	Nicholas Fischer, Ph.D.
		0830 - 0845	Accelerating Force Health Protection: Humanized HIS DRAGA Mouse as a Preclinical Platform for Infectious Disease Countermeasures	MHSRS-26-4193	Sofia Casares, Ph.D.
		0845 - 0900	Transchromosomal Bovine-Derived Fully Human Polyclonal Antibodies: A Platform for Military Infectious Disease Countermeasures	MHSRS-26-4178	Thomas Luke, M.D.
		0900 - 0915	Plug-&-Play Skin Immunoengineering: a Deployable Microneedle Patch Platform Against Emerging Pathogen Threats	MHSRS-26-4469	Louis Faló, M.D., Ph.D.
		0915 - 0930	Lymphoid Follicle Microphysiological Systems: A Platform Technology for Rapid Infectious Disease Countermeasure Development	MHSRS-26-4893	Taalin Hoj, Ph.D.
		0930 - 0945	Psoralen + UVA (PUVA) Inactivation as an Agile Vaccine Platform for Multi-Pathogen Force Health Protection	MHSRS-26-5534	John Sanders, M.D.
		0945 -1000	A Codon-Pair Deoptimized, Live-Attenuated Dengue Vaccine with Balanced Immunogenicity & Protection Across Preclinical Models	MHSRS-26-5783	Steffen Mueller, Ph.D.
Two Hour Session 0800 - 1000	Forward Trauma Care: Enhancing Semi-Fixed Role 1 Facility Capabilities for LSCO Caryn A. Stern, DrPH, MPH LTC Steven G Schauer, USA Moderators	0800 - 0815	Concurrent Hemorrhage & Traumatic Brain Injury Increases Mortality Three-Fold: Findings from a Prolonged Care Setting	MHSRS-26-4176	Hendrick J. Lategan, MBChB
		0815 - 0830	Survival Times for Truncal Hemorrhage Patients in a Prolonged Care Trauma System: Implications for Combat Casualty Evacuation	MHSRS-26-4223	Nee-Kofi Mould-Millman, M.D., Ph.D.
		0830 - 0845	Dried Plasma (with or without TXA) Reduces 24-Hour Mortality in Traumatic Hemorrhage in a Resource-Limited Setting in South Africa	MHSRS-26-4215	Julia Dr. Dixon, M.D., MPH
		0845 - 0900	Impact of Deferring Prehospital Thoracostomy in Combat Casualties: A Before-&-After Study	MHSRS-26-4842	CPT Gal Khanchin, IDF
		0900 - 0915	Revised Prehospital Airway Strategy Prioritizing Rapid Evacuation & Clinical Outcomes in the “Swords of Iron” War	MHSRS-26-4879	LTC Omri Shental, IDF
		0915 - 0930	Combat-Related Shrapnel Injuries in Contemporary Warfare: Outcomes Supporting Early Evacuation	MHSRS-26-4485	MAJ Danielle Akler, IDF
		0930 - 0945	Role 0 Damage Control Procedures in Ukraine: A Model for Far Forward Casualty Care in LSCO	MHSRS-26-4516	John Quinn, M.D., MPH, Ph.D.
		0945 -1000	Beyond TCCC: A DCoT Consensus on Knowledge & Surgical Skills Required of Role 1 Clinicians During Large-Scale Combat Operations	MHSRS-26-4576	LCDR Brittany Hout, USN
Two Hour Session 0800 - 1000	Data to Decision: Optimizing Cognitive Performance for the Operational Environment Malena Rone, Ph.D. Kristin J. Heaton, Ph.D. William Aue, Ph.D. Moderators	0800 - 0815	DoW Warfighter Brain Health Initiative: Line of Effort 1: Cognitive Health & Performance	MHSRS-26-NA-02	Katherine Lee, M.S.
		0815 - 0830	Advancing Cognitive Assessment & Performance Through the Warfighter Performance Optimization Framework	MHSRS-26-4400	Theresa Santo, Ph.D., MPH
		0830 - 0845	Optimizing Cognitive Performance in the Operational Environment with Neuromodulation	MHSRS-26-2212	Lindsey McIntire, M.S.
		0845 - 0900	Simulated Patient Physiologic Parameter Analysis for Performance Feedback Near Real-Time During Training & Simulation	MHSRS-26-5185	COL Valerie Sams, USAF
		0900 - 0915	Pharmacological Support for Warfighter Decision Making Under Circadian Misalignment	MHSRS-26-3931	Brieann Satterfield, Ph.D.
		0915 - 0930	Factor Structure of Baseline and Acute mTBI Assessments in Service Academy Cadets: Implications for Diagnostic Optimization	MHSRS-26-2304	Landon Lempke, Ph.D.

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		0930 - 0945	MATE-3MDR: Music & Art Therapy to Expand 3MDR (Multi-Modular Memory Desensitization & Reconsolidation) Treatment for PTSD	MHSRS-26-4174	Michael Roy, M.D., Ph.D.
		0945 - 1000	Q&A	MHSRS-26-NA-12	
Two Hour Session 0800 - 1000	Hemorrhage Control & Vascular Dysfunction Thomas Edwards, DVM, MS Bryan Jordan, DNP, RN Moderators	0800 - 0815	How Much Fluid is Too Much? Endothelial Signals After TBI	MHSRS-26-1043	Tanya Anand, M.D., MPH
		0815 - 0830	Restoring Vascular Function After Hemorrhage: Preclinical & Translational Development of a Platform Endothelial Therapy	MHSRS-26-2486	Harold Kim, Ph.D.
		0830 - 0845	Activating the Neural Tourniquet: Vagus Nerve Stimulation Reduces Blood Loss in a Swine Model of Non-Compressible Trauma	MHSRS-26-3764	Jack Hutcheson
		0845 - 0900	Development & Validation of a Benchtop Cardiovascular Simulator of Arterial Hemorrhage Against a Porcine In Vivo Comparator	MHSRS-26-4104	Tushar Kailu, Ph.D.
		0900 - 0915	POWER Graft: Bedside-Manufactured Bioengineered Vascular Graft in a Swine Model	MHSRS-26-3682	Samand Pashneh-Tala, Ph.D.
		0915 - 0930	Self-Propelling Hemorrhage Control Powder with Thrombin & Tranexamic Acid Achieves Hemostasis In Upper Gastrointestinal Bleeding	MHSRS-26-5397	Youjie Zhang, ME
		0930 - 0945	Fast-Acting Hemostasis Using Enzyme-Activated Collagen Matrices: Preclinical Evaluation in a Liver Injury Model	MHSRS-26-5747	Svitlana Malovana
		0945 -1000	Pain Generation by Tourniquet Application: A Comparative Study of Two Hemorrhage Control Devices	MHSRS-26-4521	David Rand
Two Hour Session 0800 - 1000	New Sensor & Algorithm Technologies to Improve & Support Monitoring, Triage, & CCC Jose Salinas, Ph.D. William R. McGarity, B.S. Moderators	0800 - 0815	Non-Contact Laser Ultrasound (NCLUS) Medical Imaging System	MHSRS-26-2245	Robert Haupt, M.S.
		0815 - 0830	AI-Driven Analysis for Early Detection of Wound Infection from Skin VOC Emissions	MHSRS-26-4131	Cristina Davis, Ph.D.
		0830 - 0845	Benchmarking Wearable Physio-Markers for Stroke Volume Tracking During Hemorrhage & Blood Transfusion in a Swine Model	MHSRS-26-2434	Sina Masoumi Shahrabak, M.S.
		0845 - 0900	Sensor-Based Tactical Response & Evaluation for Triage & Continuous Healthcare	MHSRS-26-3783	Bryce Smith, M.S.
		0900 - 0915	Turning Pixels into Decisions: Predicting Delayed Wound Closure with Image & Clinical Data	MHSRS-26-3809	Felipe Lisboa, Ph.D.
		0915 - 0930	An Optoelectronic Wearable End-Tidal CO2 Monitoring Device for Prolonged Critical Care	MHSRS-26-3893	Nianyu Jiang, Ph.D.
		0930 - 0945	Portable Electrochemical Sensors with Engineered Interfaces & Data-Driven Waveform Analysis for Field-Ready Detection	MHSRS-26-2424	Zhe Wang, Ph.D.
		0945 -1000	Extracting Arteriovenous Oxygen Gradient with Wearable E-Tattoo for Early Hemorrhage Detection	MHSRS-26-4813	Philip Tan, Ph.D.
Two Hour Session 0800 - 1000	Optimizing Nutrition to Support Military Service Members LTC Bridget Owens, USA Moderator	0800 - 0815	Nutrition-Related Predictors of Physical Performance During One-Station Unit Training	MHSRS-26-3704	LTC Bridget Owens, USA
		0815 - 0830	Nutritional Management During Infantry Training Improves Body Composition & Soldiers' Perceptions of Food Adequacy	MHSRS-26-4162	CPT Daniell Agaev, IDF
		0830 - 0845	Sacrificing Self for the Mission: A Mixed Methods Analysis of Eating Behaviors Among Marine Corps Drill Instructors	MHSRS-26-4436	CAPT Melissa Troncoso, USN
		0845 - 0900	Dietary Supplements & Exertional Rhabdomyolysis in the Army	MHSRS-26-4408	Josh Kazman, Ph.D.
		0900 - 0915	Association Between Vitamin D, Homocysteine, & Cognitive Recovery in Individuals with Memory Impairment	MHSRS-26-5972	Suresh Kumar, M.D.

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		0915 - 0930	Vitamin D Deficiency Risk & Deployment Among Female Service Members	MHSRS-26-4433	D. Alan Nelson, Ph.D.
		0930 - 0945	Nutrition Health Coaching is a Strategy for Improving Physical Performance Among Soldiers	MHSRS-26-3728	LTC Julianna Jayne, USA
		0945 -1000	The Rise of Pharmacotherapy for Obesity Among U.S. Armed Forces: Trends in Prescribing Prevalence & Implications for Readiness	MHSRS-26-2437	Tracey Smith, Ph.D.
Two Hour Session 0800 - 1000	DoW/FDA & AI, AM, Digital Health Technologies - Accelerating CCC MedTech Chandar Thakur, Ph.D. LTC Br&on Hey, USA Moderators	0800 - 0815	Moving Out: FDA’s Role in Facilitating Access to Medical Countermeasures for the Warfighter	MHSRS-26-NAS-101	Robert Fisher, Ph.D.
		0815 - 0830	The Global Regulatory Environment & the DoW’s Ability to Create Room to Maneuver	MHSRS-26-NAS-102	LTC Andrea Mountney, Ph.D.
		0830 - 0845	Accelerating Combat Casualty Care: Regulatory Strategies for Additive Manufacturing & Digital Health Technologies in Military Medicine	MHSRS-26-NAS-103	Emily Badraslioglu, M.S.
		0845 - 0900	Journey to a 510(k) Clearance for a Point-of-Care Additive Manufacturing Facility	MHSRS-26-NAS-104	Nikki McMinn, M.S.
		0900 - 0915	The Intersection of FDA Regulations & DoW Operations	MHSRS-26-NAS-105	Rachel Kapust Hunnicutt, J.D., M.S.
		0915 - 0945	Autonomous Decision-making in Medical Devices - FDA Risk & Benefit Perspectives	MHSRS-26-NAS-106	Heather L. Agler, Ph.D.
		0945 -1000	Panel Q & A	MHSRS-26-NAS-107	All Panel Members
Two Hour Session 0800 - 1000	Leveraging Venture Capital Models to Advance Military Health System Capabilities James Dillman, Ph.D. Christopher Dearth, Ph.D. Moderators	0800 - 0815		MHSRS-26-NAS-401	DHA Leadership
		0815 - 0830		MHSRS-26-NAS-402	Matthew Goldman, M.D.
		0830 - 0845		MHSRS-26-NAS-403	Kimberly Muller, JD
		0845 - 0900		MHSRS-26-NAS-404	Joseph Lee
		0900 - 0915		MHSRS-26-NAS-405	Lewis Rubinson, M.D., Ph.D.
		0915 - 0930		MHSRS-26-NAS-406	CAPT Niels Olson, M.D.
		0930 - 0945		MHSRS-26-NAS-407	Michael Koeris, Ph.D.
		0945 -1000	Moderated Panel Discussion	MHSRS-26-NAS-408	All Panel Members
Two Hour Session 1300 - 1500		1300 - 1315	The Infectious Disease Clinical Research Program: A Military Translational Research Center Generating Evidence for Practice	MHSRS-26-4238	Brian Agan, Ph.D.

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	From Lab to Line: The Military’s Role in Advancing Infectious Disease Countermeasures Chad Porter, Ph.D. LTC Brett Swierczewski, USA Moderators	1315 - 1330	Development of a Novel Prophylactic Immune Enhancer for Respiratory Viral Infections	MHSRS-26-3838	Ruth Tal-Singer, Ph.D.
		1330 -1345	From Discovery to Phase 3: Advancing Transchromosomal Bovine Polyclonal Antibodies Through the Military Development Pipeline	MHSRS-26-4181	Thomas Luke, M.D.
		1345 - 1400	Obtaining Human Samples in Austere Environments to Develop Infectious Disease Countermeasures for the Warfighter: Lessons Learned	MHSRS-26-4321	Mark Kortepeter, M.D.
		1400 - 1415	Department of War–Scandinavian Biopharma (SBH) Collaboration in the Development of ETVAX to Prevent Diarrhea in Deployed Troops	MHSRS-26-4810	Thomas Wierzbza, Ph.D.
		1415 - 1430	DoD-Supported Phase 2 Validation of IV Phage Therapy for Complicated Bacteremia Due to Multidrug-Resistant Staphylococcus Aureus	MHSRS-26-4890	Deborah Birx, M.D.
		1430 - 1445	Accelerating Medical Countermeasures from R&D to Clinical Trials via GMP Manufacturing at Walter Reed Army Institute of Research	MHSRS-26-5765	Stasya Zarling Bejma, Ph.D.
		1445 - 1500	The Joint Infection System (JIS): A Learning Biodefense Capability to Enhance Joint Force Readiness & Survivability	MHSRS-26-4217	David Tribble, M.D.
Two Hour Session 1300 - 1500	Autonomous Casualty Evacuation in LSCO: Gaps, Challenges, & Opportunities Col Adam Willis, USAF Lt Col Craig Nowadly, USAF Moderators	1300 - 1315	Casualty Evacuation Operations: A DOTMLPF-Driven Approach to Addressing Casualty Evacuation in the Next War	MHSRS-26-2305	COL Conrad Wilmoski, USA
		1315 - 1330	Decentralized Casualty Evacuation in Large-Scale Combat Operations: Lessons from Nontraditional Field Networks	MHSRS-26-2538	Maks Goldshmidt
		1330 -1345	Applying Mission-Based Systems Engineering to Enable Trusted Autonomous Casualty Evacuation (TRACE)	MHSRS-26-5736	Ryan Byrne, Ph.D.
		1345 - 1400	Impacts of Sustained Gx Acceleration in a Randomized, Translational Swine Polytrauma Model	MHSRS-26-3948	Hayley Brawley, Ph.D.
		1400 - 1415	Closing the Loop; Integrating Patient Status into Flight Planning and Control for Autonomous Aeromedical Vehicles	MHSRS-26-4493	Lonnie Petersen, M.D, Ph.D.
		1415 - 1430	Human Factors and Operational Integration of Unmanned Medical Evacuation Systems: A Conceptual Framework	MHSRS-26-2315	Ariel Braverman
		1430 - 1445	Autonomous CASEVAC and Resupply using UGVs	MHSRS-26-5095	Gregory Rule, PE
		1445 - 1500	Unmanned Autonomous Systems in the Context of Medical Evacuation During Large-Scale Combat Operations	MHSRS-26-2412	CDR Christoph Jaenig, Bundeswehr Central Hospital, GE
Two Hour Session 1300 - 1500	Blood & Blood Products: Novel Strategies for Treatment of Blood Failure Michael Adam Meledeo, Ph.D. Anne McKeague, Ph.D. Moderators	1300 - 1315	Field Study on Operational Drone Delivery of Freeze-Dried Plasma & Blood Products in Ukraine	MHSRS-26-NA-03	Col Taras Sheremeta, UKR
		1315 - 1330	Extracorporeal Potassium & Lactate Removal: Why This Will Matter in LSCO?	MHSRS-26-5387	George Harea, Ph.D.
		1330 -1345	Blood Preservation is Force Preservation: High Throughput Screening Identifies Small Molecules that Sustain ATP in Whole Blood	MHSRS-26-4233	MAJ Lisa-Marie Oberhuber-Kurth, Bundeswehr
		1345 - 1400	Cold & Room Temperature Stored Platelets for Active Bleeding: A R&omized Clinical Trial	MHSRS-26-6074	Philip Spinella, M.D.
		1400 - 1415	Differential Calcium Signaling & Metabolism in Cold- Versus Room Temperature-Stored Platelets	MHSRS-26-3778	Lusha Xiang, M.D.
		1415 - 1430	Development of Temperature-Stable Whole Blood Analog with Extended Shelf Life Using Synthetic Components in Japan	MHSRS-26-5228	Manabu Kinoshita, Ph.D.
		1430 - 1445	Type O Whole Blood Prehospital Resuscitation for Trauma & Hemorrhage: The TOWAR Cluster Randomized Trial	MHSRS-26-5163	Frank Guyette, M.D.
		1445 - 1500	In Vivo Safety of Enzyme-Converted O Whole Blood During Autologous Transfusion After Hemorrhage in Swine	MHSRS-26-4306	Lt Col Craig Nowadly, USAF