

BREAKOUT SESSIONS Wednesday, 5 August 2026					
Breakout Session Time	Topic Area	Presentation Time	Presentation Title	MHSRS Number	Presenter

BREAKOUT SESSIONS Wednesday, 5 August 2026					
Breakout Session Time	Topic Area	Presentation Time	Presentation Title	MHSRS Number	Presenter
Two Hour Session 0800 - 1000	Fighting the Invisible Enemy: Combating Antibiotic Resistant Bacteria in Combat Wounds COL Jeffrey Livezey, USA Moderator	0800 - 0815	Session Introduction	MHSRS-26-NA-04	COL Jeffrey Livezey
		0815 - 0830	Phage Amplified Diagnostics Against MDR Bacterial Pathogens for Forward-Deployed ID & AST	MHSRS-26-5063	Chris Cox, Ph.D.
		0830 - 0845	Modular Phage Therapeutics: A New Class of Living Drugs to Combat Superbugs	MHSRS-26-2203	Biswajit Biswas
		0845 - 0900	Advanced Biofilm-Disruption Methodology for Preventing Surgical Site Infections via Synergistic Silver Solution	MHSRS-26-2335	Eyal Nouri
		0900 - 0915	Preclinical Safety, Release Kinetics, & Pharmacokinetic Validation of a Refillable Local Drug Delivery Device	MHSRS-26-5907	Alex Madsen
		0915 - 0930	Phage Cocktail WRAIR_PAM3 Delivered via Sponges Accelerates Healing of P. aeruginosa Infected Wounds	MHSRS-26-5566	Nino Mzhavia, Ph.D.
		0930 - 0945	Overcoming Antibiotic Resistance in Wound Care Using Photodynamic Therapy	MHSRS-26-3988	Yanfang Feng, Ph.D.
		0945 -1000	Advancement of Pathogen-Agnostic CLAROMER® Peptoids as Deployable Countermeasures for Battlefield Wound Infection Treatment	MHSRS-26-6075	Zachary Rivas, Ph.D.
Two Hour Session 0800 - 1000	Integrating Holistic & Technological Approaches for Musculoskeletal Injury Prevention Joseph Wasser, Ph.D. Moderator	0800 - 0815	Understanding Injury Prevention Knowledge, Attitudes, & Beliefs Among U.S. Marines in Secondary Training Setting	MHSRS-26-2546	Emily Ricker, Ph.D.
		0815 - 0830	External Validation of a Self-Report Screening Tool for MSKI Risk Stratification in US Soldiers	MHSRS-26-5856	Megan Roach, Ph.D.
		0830 - 0845	Social Influence & Network Structure as Drivers of MSKI Risk & Recovery in Soldiers	MHSRS-26-4904	Kristen Zosel, DPT, Ph.D.
		0845 - 0900	High Intensity Load Influences Wearable U/S Muscle Coordination Metrics; Implications for Injury Monitoring in Warfighters	MHSRS-26-4611	Erica King, Ph.D.
		0900 - 0915	Noninvasive Detection of Tibial Stress Fractures Using Surface Acoustic Waves	MHSRS-26-5788	Anna Knight, Ph.D.
		0915 - 0930	FlyB& ExoBoot: A Passive Exoskeleton Boot for Ankle Sprain Prevention & Graduated RTD	MHSRS-26-3580	Jessica Hunter, Ph.D.
		0930 - 0945	Body-centered Intervention to Reduce Fall Injuries in Special Forces Selection Course: Results from the POSITION STUDY	MHSRS-26-3656	Lt Col Charles Verdonk, USAF
		0945 -1000	Saving the Tactical Athlete: A Data-Informed Approach to Reducing Attrition in the US AF Spec Warfare Training Wing	MHSRS-26-5329	JD Mata, M.S.
Two Hour Session 0800 - 1000	Role of the Military Family in Supporting Warfighter Readiness Elizabeth Hisle-Gorman, Ph.D. Christin Ogle, Ph.D. Moderators	0800 - 0815	Beyond Unemployment: An Assessment of Underemployment, Dissatisfaction, and Career Impact Among U.S. Military Spouses	MHSRS-26-2083	Kelly Woodall MPH
		0815 - 0830	REACH: Evaluation of the REACH Peer Support Program for Active-Duty Military Spouses	MHSRS-26-5038	Elisa Borah, Ph.D. Emily Neimeyer, MPH
		0830 - 0845	Sleep, Family Resilience, and Readiness: A Randomized Trial of Remote and In-Person Behavioral Treatment for Insomnia in Children	MHSRS-26-6041	Christina S McCrae, Ph.D.
		0845 - 0900	Active Duty Service Member Mental Health Utilization after Spouse or Child Serious Injury	MHSRS-26-4925	Maj Julianne LeGierse, USAF
		0900 - 0915	Leveraging Military Families to Strengthen Mental Health and Force Readiness	MHSRS-26-5728	Shannon R. Miles, Ph.D.
		0915 - 0930	Children Serve Too: Military Life Stress Among the Children of Newly Enrolled Millennium Cohort Family Study Participants	MHSRS-26-1048	Sabrina M. Richardson, Ph.D.
		0930 - 0945	The Military Family as an Operational Readiness Enabler: Ethnographic Insights from Veterans and Active-Duty Families	MHSRS-26-3626	COL (Ret.) Tamara Funari, AN, MSN Christi Kruse, B.A.

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Breakout Session Time	Topic Area	Presentation Time	Presentation Title	MHSRS Number	Presenter
		0945 -1000	The Prevention Gap: A Longitudinal Analysis Correlating Staffing, Program Output, and Harmful Behavior Outcomes	MHSRS-26-2255	Jessica C Jagger, Ph.D., MSW
Two Hour Session 0800 - 1000	Far-Forward Portable Life Support & Imaging Devices Maj Elizabeth Powell, USAF Arthi Amin, Ph.D. Farrukh Rizvi, Ph.D. Moderators	0800 - 0815	Developed in the US, Implemented in Ukraine: First in Human Use of Battery Operated Portable Extracorporeal Life Support in ARDS	MHSRS-26-2551	Andriy Batchinsky, M.D.
		0815 - 0830	Far-forward Organ Resuscitation Teams for Rapid Stabilization & Sustainment (FORTRESS): A Force Multiplier for Denied Evacuation	MHSRS-26-5246	Adam Gottula, M.D.
		0830 - 0845	Lightweight, Portable Device for On-Demand Production of Dialysate in Austere Environments	MHSRS-26-5735	Girish Srinivas, Ph.D.
		0845 - 0900	Ultra-Bright NIR-II/SWIR Conjugated Polymer Nanoparticles for Low Dose, High-Contrast Imaging in Resource-Limited Environments	MHSRS-26-6058	Joshua Tropp
		0900 - 0915	Digital Dental Loupes for Military Dental & Maxillofacial Care	MHSRS-26-5496	Yang Liu, Ph.D.
		0915 - 0930	Exploring Quantitative Imaging to Assess Progression of Traumatic Wounds (EQUIP)	MHSRS-26-5743	Jennifer Peers, MPH
		0930 - 0945	Enhancing Far Forward Trauma Care with Computed Echo Tomography: A Forward-Looking Analysis Based on Current Experience	MHSRS-26-3663	CAPT Matthew Bradley, USN
		0945 -1000	Portable Volumetric Imaging from Trackerless 2D Ultrasound for Musculoskeletal Injury Assessment	MHSRS-26-4612	Benjamin Roop, M.S.
Two Hour Session 0800 - 1000	Novel Solutions for Burn Care Lt Col Angela K. Phillips, USAF Robin Duncan, Ph.D. Moderators	0800 - 0815	Military Burnscreen	MHSRS-26-5764	Yakir Lavin, M.D., Ph.D.
		0815 - 0830	Evaluation of a Novel Silica-Based Cream for Initial Burn Application in a Porcine Model Modeling Prolonged Field Care	MHSRS-26-3972	CPT Amy Wang, USA
		0830 - 0845	Efficacy of a Novel Multi-Use Scalable Long-Acting Nanoparticle Anesthetic Tilapia Dressing in Burns	MHSRS-26-5932	Tina Palmier, M.D.
		0845 - 0900	Minocycline Hydrogel for Burn Wound Stabilization & Infection Control in Austere Settings	MHSRS-26-3655	Kristo Nuutila, Ph.D.
		0900 - 0915	Peripheral Focused Ultrasound Therapy Enhances Wound Healing Without Increasing Infection Risk in Embedded Object Models	MHSRS-26-5421	Christine Morton, B.A.
		0915 - 0930	From Role 4 Proof-of-Concept to Role 1 Stabilization: Large-Area Cold Plasma Bags for Severe Burn Care	MHSRS-26-6067	Carsten Mahrenholz, Ph.D.
		0930 - 0945	Single Shot Tenecteplase is a Safe & Effective Treatment for Severe Frostbite	MHSRS-26-4281	Alexandra Lacey, M.D.
		0945 -1000	Construct Validity of the Burn Prehospital Provider (BP2) Program: Interim Analysis of a Military–Civilian Educational Initiative	MHSRS-26-5990	Jeffrey Carter, M.D.
Two Hour Session 0800 - 1000	Managing the Golden Hour & Beyond: Innovative TBI Care in Contested Combat Environments Lars Hungerford, Ph.D. James B. Phillips, Ph.D. Moderators	0800 - 0815	TBI Prehospital Care in the IDF – Expert Committee Conclusions	MHSRS-26-5237	Capt Inbal Dym, IDF
		0815 - 0830	READY (Rapid Evaluation of Attention for DutY): A Smartphone Screening Tool for Field-Forward Attention/Readiness Assessment	MHSRS-26-5780	Christopher J Smalt, Ph.D.
		0830 - 0845	Whole Blood Point-of-Care Biomarker Testing in Acute Mild Traumatic Brain Injury Following Airborne Operations: A POINT-mTBI Study	MHSRS-26-5456	Jacques Arrieux, M.S.
		0845 - 0900	Diagnostic Accuracy of GFAP & UCH-L1 for Acute Intracranial Trauma in Blast-Dominant Combat Casualties	MHSRS-26-4578	Alisa M. Sheldon, MSC
		0900 - 0915	Blood Biomarkers to Distinguish mTBI at the Asymptomatic State & Predict the Recovery Time: AI/ML Empowered Multi-omics Analysis	MHSRS-26-2368	Nabarun Chakraborty, M.S., MBA

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		0915 - 0930	Validation of the Bethesda Eye & Attention Measure for Multimodal Screening & Longitudinal Monitoring of Mild TBI	MHSRS-26-4325	Mark L. Ettenhofer, PhD
		0930 - 0945	Treatment Device for Subdural Hemorrhage in Austere Environments	MHSRS-26-4409	David Brody, M.D., Ph.D.
		0945 -1000	Acute Traumatic Subdural Hematoma in Penetrating Brain Injury During Modern Warfare: Lessons for Combat Neurosurgery	MHSRS-26-2357	Alex Valadka, M.D.
Two Hour Session 0800 - 1000	One Health in Uniform: Veterinary Medicine Supporting Warfighter Readiness LTC Anna-Maria Travis, USA LTC Emily Corbin, USA Moderators	0800 - 0815	A Human-Veterinary Trauma Research Network: Advancing the Care of Human Warfighters & Military Working Dogs	MHSRS-26-5129	Kelly Hall, DVM, M.S.
		0815 - 0830	BAAD Dog: Baseline Altitude Assessment in Desanguinated Dogs	MHSRS-26-3770	LTC Emily Bingham, USA
		0830 - 0845	Orthopedic Injury in a Subset of Military Working Dog Kennels & Associated Risk Factors	MHSRS-26-3854	CPT Caroline Barton, USA
		0845 - 0900	Medical Readiness & Health Outcomes of Military Working Dogs Deployed to National Special Security Events	MHSRS-26-3820	CPT Levi Jackson, USA
		0900 - 0915	Post-mission Metagenomic Surveillance of Blood Microbiota in Military Working Dogs	MHSRS-26-4072	Oleksandra Kepple, DVM, Ph.D.
		0915 - 0930	Naturally Occurring Trypanosoma Cruzi Infection in Testicles of Military Working Dogs	MHSRS-26-5419	LTC Anna-Maria Travis, USA
		0930 - 0945	Development & Characterization of a Sublethal-Sequelae Mouse Model of Eastern Equine Encephalitis Virus Infection	MHSRS-26-5217	Shannon Carney, MPH
		0945 -1000	Novel Common Marmoset Model for Arboviruses: Development &Implementation in an OCONUS Laboratory	MHSRS-26-4531	LTC Andrew Schrader, USA
0800 - 1000	Field to Table: Special Operations Combat Medic Tactical Requirements, Needs, & Realities SGM Jonathan Lopienski, USA Moderator	0800 - 0815			
		0815 - 0830			
		0830 - 0845			
		0845 - 0900			
		0900 - 0915			
		0915 - 0930			
		0930 - 0945			
		0945 -1000			
Two Hour Session 1300 - 1500	Implementation, Challenges & Outcomes of Military Medical Research during Active Conflict Therese West, Ph.D. Tresa Conca Moderator	1300 - 1315	Lessons Learned from Implementation of Antimicrobial Resistance Research to Improve Outcomes of Traumatic Wounds in Ukraine	MHSRS-26-5235	Corey B. Bills, M.D., MPH
		1315 - 1330	Electronic Medical Systems as Platforms for Trauma Registry-based Knowledge Acquisition in the Unified Medical Space in Ukraine	MHSRS-26-4707	Andriy Batchinsky, M.D.
		1330 -1345	Battlefield Performance of the Infrascanner 2500 for Detection of Intracranial Hemorrhage & Penetrating Traumatic Brain Injury	MHSRS-26-4728	Baruch Ben Dor, Ph.D.

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		1345 - 1400	Tackling Long Evacuation Times: Introducing Far Forward Next Generation REBOA During Modern War	MHSRS-26-3877	Jessica Raley, Ph.D.
		1400 - 1415	From Protocol to Patient: Implementing a Clinical Interventional Trial in an Active Combat Zone — Lessons from Ukraine.	MHSRS-26-2380	Shomita Steiner, Ph.D.
		1415 - 1430	BRIDGE-UKR: Lessons Learned from a Penetrating Brain Injury & Biomarker Analysis Collaboration Across Cultures & Contexts	MHSRS-26-4812	Hugh Flynn, B.A.
		1430 - 1445	Operational User Assessment of XSTAT P30 for Hemorrhage Control in Ukrainian Combat & Emergency Care Environments	MHSRS-26-3890	John Steinbaugh
		1445 - 1500	Expanded Access Program of CYT107 as Add on Immunotherapy in Patients with Refractory Bacterial & Fungal Infections in Ukraine	MHSRS-26-2244	Kristen Pettrone,M.D.
Two Hour Session 1300 - 1500	Exoskeletal Solutions & Amputation-focused Research on Surgical or Rehabilitation Outcomes Lee Childers, Ph.D., CP Trevor Kingsbury, M.S. Moderators	1300 - 1315	Therapeutic Limb Hypothermia Preserves Function in a Novel Survival Porcine Model of Acute Hindlimb Ischemia	MHSRS-26-5838	Ariyan Tabesh, MD
		1315 - 1330	An Off-the-Shelf Biologic Vascular Graft for Extremity Arterial Trauma: Long-Term Outcomes from Civilian & Conflict Settings	MHSRS-26-5226	Charles J. Fox, M.D.
		1330 -1345	Individual Preference for Upper Extremity Prosthetics along a User-Complexity Framework: Optimizing Choice to Speed Recovery	MHSRS-26-5836	Leslie Wilson, Ph.D.
		1345 - 1400	Exoskeleton Reduces Modeled Tibial Load in Healthy Human Participants during Walking & Running	MHSRS-26-2529	Robert L. McGrath, Ph.D.
		1400 - 1415	Battlefield Mobility: Analyzing Vertical Walking Loads on Fracture Treatments after a Lower Extremity Fracture	MHSRS-26-4663	Julia M. Castrucci
		1415 - 1430	Early Outcomes of a DoW Sponsored Clinical Trial to Address Amputated Nerve Ends - Tolerability/Feasibility Study on Nerve Caps	MHSRS-26-4696	Evan J. Hernandez, MBA
		1430 - 1445	Defining Optimal Prosthetic Socket Pressure Profiles to Protect Limb Health	MHSRS-26-4254	Matt Wernke, Ph.D.

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		1445 - 1500	Traumatic Hindfoot Injury Produces Long-Term Musculoskeletal Outcomes Comparable to Transtibial Amputation: The ADVANCE Study	MHSRS-26-3989	Clara Molano Gomez
Two Hour Session 1300 - 1500	Robotics & Human-Machine Teaming for Augmenting Combat Casualty Care Delivery Nathan Fisher, M.S. Moderator	1300 - 1315	RoboScout DTC: Human–Machine Teaming for Autonomous & Intelligent Assessment in Mass Casualty Emergency Response	MHSRS-26-4652	Kleio Baxevani, Ph.D.
		1315 - 1330	Detection to Decision: Standoff Robotics in Combat Casualty Triage	MHSRS-26-5059	Leonard Weiss, M.D.
		1330 -1345	Context-specific Pluralistic AI Alignment in Military Medical Decision Making	MHSRS-26-4096	Jennifer McVay, Ph.D.
		1345 - 1400	Heads-Up, Hands-Off Medic-Robot Teaming with Foundation Models & Agentic AI	MHSRS-26-4264	David Handelman, Ph.D.
		1400 - 1415	NxtMedic-AutoDoc System: A Realtime Autonomous Medic Documentation System for Tracking Procedures Performed & Resources Utilized	MHSRS-26-5852	Sridhar Ramakrishnan, Ph.D.
		1415 - 1430	On-Premise Artificial Intelligence Decision Support for Prolonged Field Care in Contested Environments: Field Care GPT	MHSRS-26-4445	Nam Tran, Ph.D.
		1430 - 1445	A Closed Loop Resuscitation System Driven by Non-Invasive Parameters Restores Perfusion in a Porcine Hemorrhagic Shock Model	MHSRS-26-5117	Ronald Poropatich, M.D.
		1445 - 1500	Skill Transfer for Robot-Assisted Ultrasound in Austere Environments via 12-DOF Sensing & Imitation Learning	MHSRS-26-6061	Jared Grinberg, M.S.
Two Hour Session 1300 - 1500	Undersea Operational Research Panel Ben Lawson, Ph.D. LCDR Brian Williams, USN Moderators	1300 - 1315	Convergence of Hogan Derailment Risk & Multisource Leadership Feedback in U.S. Navy Submarine Operations	MHSRS-26-2385	Dana Dilweg, M.S.
		1315 - 1330	MICROCOSM: Longitudinal Evaluation of the Gut Microbiome, Sleep, Mood, & Cognitive Performance in Royal Navy Submariners During	MHSRS-26-5300	Surg Cdr Lt Cdr David Inglis, Royal Navy
		1400 - 1415	Predicting Middle Ear Barotrauma Using Eustachian Tube Function Tests in Recruits Undergoing Pressurized Submarine Escape Training	MHSRS-26-4091	Kristine Sonstrom Malowski, Au.D., Ph.D.
		1345 - 1400	Inert Gas Elimination in the Injured Lung	MHSRS-26-5694	Michelle R. Jennette, Ph.D.
		1330 -1345	Diving Effects of CO2 and O2: Transcriptomic & Proteomic Characterization of Responses to Hyperbaric Hypercapnic Hyperoxia	MHSRS-26-4962	Luke Belval, Ph.D.
		1415 - 1430	Assessment of Physiologic Monitors for Measurement of Peripheral Oxygen Saturation During Experimental Diving Operations	MHSRS-26-2404	LT Matthew Peterson, USN
		1430 - 1445	Informative Data Science to Predict Pulmonary Symptomatology for Divers	MHSRS-26-4199	Nicholas Napoli, Ph.D.

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		1445 - 1500	Development of a Human Model for In-Water Dermal Chemical Absorption	MHSRS-26-5020	Caroline J. Smith, Ph.D.
Two Hour Session 1300 - 1500	Saving Servicemembers Sight LTC Gary Legault, USA Lt Col Rachel Lieberman, USAF Heuy-Ching Hetty Wang, Ph.D. Moderators	1300 - 1315	The impacts of Protective Eyewear & Evacuation Time on Ocular Injuries During the First Maneuver of the "Iron Swords" War	MHSRS-26-4151	Jacob Megreli, M.D., MPH
		1315 - 1330	Point-of-Injury Identification of Severe Open Globe Injuries	MHSRS-26-4265	Lauren Costella
		1330 -1345	Ultrastable Engineered bFGF for Regenerative Repair of Mechanical & Chemical Corneal Injuries	MHSRS-26-2370	Satarupa Bhaduri
		1345 - 1400	Sustained Ocular Delivery of Repurposed Nintedanib Via a 3D-Bioprinted Ocumem Prevents & Reverses Corneal Scarring	MHSRS-26-5454	Ghanashyam Acharya, Ph.D.
		1400 - 1415	Axonal Regeneration Across a Completely Transected & Repaired Optic Nerve in a Vascular-Preserved Rat Model	MHSRS-26-4950	Bing Li, M.D.
		1415 - 1430	Hydrogel Microbots for Blood Clot Breakdown & Mitigation of Vitreous Hemorrhages	MHSRS-26-5039	Louis William Rogowski
		1430 - 1445	STING Regulates Epithelial-Mesenchymal Transition of the Retinal Pigment Epithelium in Proliferative Vitreoretinopathy	MHSRS-26-2247	Xinyuan Huang, M.D.
		1445 - 1500	Measurement of Strain Along Optic Pathway in Model Head in Repeat Low-Level Blast Environments: Effect of Head Orientation & Eye	MHSRS-26-5548	Sariah D’Empaire-Salomon
Two Hour Session 1300 - 1500	Military Injury Biomechanics & Applications to Warfighter Injury Prevention Frederick T. Brozoski, M.S. Moderator	1300 - 1315	Sex-Specific Brain Atlases & Models Reveal Structural Differences & Distinct Strain Responses in Traumatic Brain Injury	MHSRS-26-5432	Marzieh Memar, Ph.D.
		1315 - 1330	Physical Mechanism of Brain Deformation under Operational Blast Exposure	MHSRS-26-4385	Enze Chen, Ph.D.
		1330 -1345	Evaluation of Cervical Spine Disc Arthroplasty Devices During High Accelerative Loading	MHSRS-26-5692	Timothy DeWitt, Ph.D.
		1345 - 1400	Characterization of Injuries and Development of Injury Risk Curves for Frontal & Vertical Acceleration with Non-Human Primates	MHSRS-26-3627	Marc Duemmler, M.S.
		1400 - 1415	High-Rate Ultrasound Elastography for In Situ Characterization of Soft Tissue Mechanics During Ballistic Relevant Impact	MHSRS-26-5773	Anna Knight, Ph.D.
		1415 - 1430	Current Status of Skull Fracture Injury Risk Curves for Behind Helmet Blunt Trauma	MHSRS-26-5126	Narayan Yoganandan, Ph.D.
		1430 - 1445	Lightweight Armor-Induced Thoracic Behind Armor Blunt Trauma: Understanding Regional Injury Risk & Armor Design Implications	MHSRS-26-5667	Alexander Iwaskiw, M.S.
		1445 - 1500	The Development of an Injury Severity Scoring System to Appropriately Define Operationally Relevant Thoracoabdominal Blunt Impact	MHSRS-26-4740	Danielle Rhodes, M.S.
Two Hour Session 1300 - 1500	Evaluating the Impact of Military Policies & Programs on Performance & Readiness Part 1/Warfighter Health & Performance Optimization Timothy Murray, Ph.D., MBA Moderator	1300 - 1315	The U.S. Army’s Holistic Health & Fitness System’s has a Positive ROI on Soldier Health, Performance, & Readiness	MHSRS-26-3926	Timothy Murray, Ph.D., MBA
		1315 - 1330	Utilization of Human Performance Optimization Personnel in the U.S. Air Force Special Warfare Training Wing	MHSRS-26-6027	Kathleen Hogan, Ph.D., ATC
		1330 -1345	The Effect of Three Pregnancy Related Policy Changes on Risk of Antepartum & Postpartum Musculoskeletal Injury	MHSRS-26-5598	Ian Sorensen, MPH
		1345 - 1400	The U.S. Army’s Holistic Health & Fitness System Improves Return to Duty & Physical Fitness following Pregnancy	MHSRS-26-3927	Melissa Richardson, MPH, M.S.

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		1400 - 1415	Exceptional Physical Fitness Associated with Decreased First-Term Attrition in U.S. Navy Recruits	MHSRS-26-2076	Meg Robinson, M.S.
		1415 - 1430	Association Between Body Composition Standards & Eating Disorder Medical Claims Among Active-Duty Service Men	MHSRS-26-5411	Kevin Chuang, MPH
		1430 - 1445	Ensuring Operational Transfer: A Scalable Training Model for Ensuring Combat Readiness	MHSRS-26-4276	MAJ Joshua Springer, USA
		1445 - 1500	Three-Hour Basic Life Support Workshop: Impact on Confidence Among Basic Training Soldiers	MHSRS-26-3860	MAJ Mor Rittblat, IDF
Two Hour Session 1530 - 1730	Preserving Warfighter Performance & Readiness through Improved Battlefield Pain Control CPT Connor N. Broyles, USA CAPT Harold Gelfand, USN Moderators	1530 - 1545	Peripheral Nerve Stimulation (Neuromodulation) for the Treatment of Postoperative Pain: A Pragmatic Multicenter Randomized Trial	MHSRS-26-2316	Brian Ilfeld, M.D.
		1545 - 1600	60-Day Peripheral Nerve Stimulation used for Treatment of Headache Facilitates Functional Improvements in Patients with Migraine	MHSRS-26-4669	Steven Cohen, M.D.
		1600 -1615	Taphalgin (Lumekefamide), A Novel Tetrapeptide Analgesic for Surgical & Trauma Pain Care	MHSRS-26-2175	Joseph Stauffer, D.O.
		1615 - 1630	Non-Invasive Block of Peripheral Nerve Action Potentials Via a Novel Electromagnetic Prototype	MHSRS-26-2184	Elaine MacAslan, M.S.
		1630 - 1645	Evaluating the Side Effect Profile & Molecular Mechanism of a Novel Analgesic: An Arylepoxamide Receptor Agonist	MHSRS-26-5434	Natasha Sosanya, Ph.D.
		1645 - 1700	Novel Analgesic SBS-1000 Does Not Alter Survival or Cardiorespiratory Responses After Traumatic Moderate Hemorrhage in Rats	MHSRS-26-4111	Miryam Pando, Ph.D.
		1700 - 1715	The Safety & Effectiveness of Ketamine for Battlefield Pain Management	MHSRS-26-4713	Julie Bytnar, DrPH
		1715 - 1730	Longitudinal Trends in Prehospital Analgesia: From Morphine-Centric Protocols to Multi-Modal Implementation (2006–2025)	MHSRS-26-5434	CPT Daniell Agaev, IDF
Two Hour Session 1530 - 1730	En Route Care and the Effects of Transport on Complex Injuries Rachel Kinsler, M.S. Moderator	1530 - 1545	Validation & Testing of the Quantra Hemostasis Analyzer in Rotary Wing Aircraft	MHSRS-26-4733	James Bardes M.D.
		1545 - 1600	Decoupling Cognitive Load From Performance Degradation Using Multimodal Digital Twins of En Route Critical Care Teams	MHSRS-26-2178	William Tyler Davis, M.D.
		1600 -1615	Ground & Aeromedical Evacuation Versus Drone-Based Warfare: What Capabilities Must be on Delivered to Point of Injury?	MHSRS-26-2543	Brendan Beely, RRT
		1615 - 1630	The Evolution of Armored Evacuation Platforms via the Swords of Iron War	MHSRS-26-4870	Lt Omer Talmon, IDF
		1630 - 1645	Evacuation Time Reflects Injury Severity: Evidence of Accurate Battlefield Triage	MHSRS-26-4483	1st Lt Antoni Skripai, IDF
		1645 - 1700	Backboards in Prehospital Trauma: Assessing Long-Term Neurological & Spine Disability Among Military Personnel	MHSRS-26-3857	MAJ Mor Rittblat, IDF
		1700 - 1715	Improving MASCAL CASEVAC: An Evaluation of Human Performance during Assisted & Unassisted Litter Carriage	MHSRS-26-3774	Matthew Ballard, M.S.

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		1715 - 1730	Compact Litter Assist for Warfighters (CLAW): Development of a Litter Carry Assistive Device for Military Casualty Transport	MHSRS-26-5360	Jacob Seymour, B.S.
Two Hour Session 1530 - 1730	Precision Readiness: Integrating Pharmacogenomics to Enhance Warfighter Health Aarti Gautam, Ph.D. Rasha Hammamieh, Ph.D Moderators	1530 - 1545	Precision Genomics: Epigenetic Insights into Resilience & the Transition from Acute Stress Disorder to Chronic PTSD	MHSRS-26-3695	Aarti Gautam, Ph.D.
		1545 - 1600	Precision Military Medicine: A Scoping Review of Human Genetics Research in the Military Health System	MHSRS-26-3666	Lydia Hellwig, Ph.D., ScM
		1600 -1615	Role of Podocyte Ceramide Synthase 6 in Renal Aging: Mechanistic Insights from Non-Human Primate & Genetic Mouse Models	MHSRS-26-4278	Guanshi Zhang
		1615 - 1630	Mapping Temporal Dynamics of Immune Responses in Severe Multisystem & Orthopedic Polytrauma Using Single-Cell Multiomics		Tori Kinamon, M.D.
		1630 - 1645	Exploring Associations with CYP Genetic Variants & Patient-Reported Outcomes in Active-Duty Service Members with Chronic Pain	MHSRS-26-5451	Nicholas Ieronimakis
		1645 - 1700	X-linked Dystrophin (DMD) Deactivation as a Genetic Determinant of Male-Biased Gastric Cancer Risk	MHSRS-26-2174	Alakesh Bera, Ph.D.
		1700 - 1715	Hypoxia-Inducible Factor 2a Targeted PET Radiotracers for Precision Medicine in RCC	MHSRS-26-5022	Sashi Debnath, Ph.D.
		1715 - 1730	Q&A	MHSRS-26-NA-11	
Two Hour Session 1530 - 1730	Sleep: The Key to Medical Readiness Tracy Jill Doty, Ph.D. Sara Alger, Ph.D. Alice LaGoy Ph.D. Moderators	1530 - 1545	Introduction: Sleep is the Key to Medical Readiness	MHSRS-26-NA-05	Tracy Jill Doty, Ph.D.
		1545 - 1600	Using the Warfighter Performance Optimization Framework to Understand Sleep's Critical Role in Readiness	MHSRS-26-4403	Theresa Santo, Ph.D.
		1600 -1615	The Role of Sleep in Multidomain Symptom Reduction Following Concussion in Active Duty Service Members	MHSRS-26-2489	Rosemay Remigio-Baker, Ph.D. Katharine Stout, PT, DPT, MBA Stephanie Sloley, Ph.D.
		1615 - 1630	Sleep Deprivation Has Differential Sex-Specific Effects on Implicit Biases Toward Death & Suicide	MHSRS-26-5583	COL William Killgore, USAR
		1630 - 1645	Non-Invasive Deep Brain Neuromodulation to Enhance REM Sleep for Trauma Adaptation	MHSRS-26-5993	Sujasha Gupta, Ph.D.
		1645 - 1700	Pain & Sleep Quality in UH-60 Aircrew vs Age-Matched Civilians	MHSRS-26-2099	Keri Hainsworth, Ph.D.
		1700 - 1715	Personalized Caffeine Recommendations for Optimal Alertness	MHSRS-26-2342	Jaques Reifman, Ph.D.

BREAKOUT SESSIONS Wednesday, 5 August 2026					
Breakout Session Time	Topic Area	Presentation Time	Presentation Title	MHSRS Number	Presenter
		1715 - 1730	Reclaim the RACK: A Mechanistically Targeted, Food-Based Sleep Aid for Warfighters — From Feasibility to Commercialization	MHSRS-26-5804	Jeffrey Bush, Ph.D.
Two Hour Session 1530 - 1730	Ops in a Nuclear Environment: Ensuring Medical Readiness & Preparing for Complex Injuries COL Lien Senchak, USA Moderator	1530 - 1545	Relevant Radiation Exposure Models in the AFRRI TRIGA Reactor	MHSRS-26-2441	Gregory Holmes-Hampton, Ph.D.
		1545 - 1600	Recapitulating the Hematopoietic Response to Ionizing Radiation in a Human Bone-Marrow-on-a-Chip	MHSRS-26-4248	Nicholas Chartrain, Ph.D.
		1600 - 1615	Sequence Matters in Modelling Combined Injury: Burn-First Combined Injury Amplifies Gastrointestinal Acute Radiation Syndrome	MHSRS-26-4201	Zammantha Manalansan-Roberson
		1615 - 1630	Tactical Combat Casualty Care on the Nuclear Battlefield: Maximizing Survival and Operational Capability After Nuclear Detonation	MHSRS-26-5407	Mark Ervin, M.D.
		1630 - 1645	BBT-059, A Promising Countermeasure for Multi-Organ Injury in Mice Exposed to Both High and Low LET Radiation	MHSRS-26-2419	Sanchita P. Ghosh, PhD
		1645 - 1700	Clinical Food Effect and Murine Efficacy Supporting BIO 300 Development as a Pre-Exposure Prophylactic Radiation Countermeasure	MHSRS-26-2540	Artur A. Serebrenik, Ph.D.
		1700 - 1715	Advancing Gamma-tocotrienol as a Prophylactic Radiation Countermeasure: Nonhuman Primate Efficacy and Multi-omics Biomarkers	MHSRS-26-2113	Vijay K. Singh, Ph.D.
		1715 - 1730	Evaluating Ionizing Radiation Response in Engineered Human Myocardium	MHSRS-26-5872	Nicholas Chartrain, Ph.D.
		1730 -1745	Prophylactic vs. Therapeutic Efficacy of Thrombopoietin-mimetics in Mitigating Lethal Irradiation and Attenuating Cardiac Atrophy	MHSRS-26-2377	Nabarun Chakraborty, M.S., MBA

BREAKOUT SESSIONS Wednesday, 5 August 2026					
Breakout Session Time	Topic Area	Presentation Time	Presentation Title	MHSRS Number	Presenter
		1745 - 1800	Thrombopoietin Mimetic as Radioprotectant against High Energy Radiation Exposure	MHSRS-26-2530	Venkat Dronamraju, Ph.D.
Two Hour Session 1530 - 1730	Joint Force Innovation: Accelerating Development through Military Experimentation Eva Rosvold, M.S. LTC Ryan Lindell, USA Moderators	1530 - 1545	Force Health Protection for Joint Operational Readiness in the Philippines	MHSRS-26-5403	Vamsi Vasireddy, MD, MPH, DrPH
		1545 - 1600	Beyond Throughput: A Patient-Centered Simulation of Role 4 Definitive Care Under Operational Constraints	MHSRS-26-4761	Sarah Vick, M.D.
		1600 -1615	Preparing for Operational Experimentation: The USAISR Experience	MHSRS-26-3635	Ian Z. Lattimore, A.S.
		1615 - 1630	Rapid Military Medical Experimentation Using a Configurable Mixed Reality Scenario Platform	MHSRS-26-5719	Kyle Couperus, M.D., MBA, BSN
		1630 - 1645	Multimodal Surgical Environment Recording & AI-Driven Performance Analytics to Enable Military Medical Experimentation	MHSRS-26-4268	Brian Lima, M.D., MBA
		1645 - 1700	Lessons Learned from Arctic Edge 2026: Translating Research from the Laboratory into Experimentation	MHSRS-26-3887	COL Laura McGhee, USA
		1700 - 1715	Forward Resuscitative Surgery Afloat: Filling the Doctrinal Gap Through Deliberate Littoral Experimentation	MHSRS-26-6073	SSG William Dean, USA
		1715 - 1730	Trooper to TRU- The First Civilian Prehospital Application of the Battlefield Assisted Trauma Distributed Observation Kit	MHSRS-26-2132	Elizabeth K. Powell, M.D.
Two Hour Session 1530 - 1730	Evaluating the Impact of Military Policies & Programs on Performance & Readiness Part 2/Medical Policies & Support Programs Timothy Murray, Ph.D., MBA Moderator	1530 - 1545	Cardiovascular Disease as Driver of Military Medical Separation: A 7-Year Analysis of Cardiology Medical Evaluation Board Referral	MHSRS-26-5051	MAJ Caroline Murphy, M.D.
		1545 - 1600	Evaluation of Proactive Medical Policies on IDF Combat Soldier Performance & Readiness in Operation Roaring Lion	MHSRS-26-4167	Lt Col Daniel Elbo Arama, USAF
		1600 -1615	A Cost-Avoidance Model for Valuing Non-Medical Outreach & Support Programs in the US Marine Corps	MHSRS-26-2254	Jessica C Jagger, Ph.D., MSW
		1615 - 1630	Combat Service & Psoriasis Exacerbation Among 3,109 Soldiers with Psoriasis: Target-Trial Emulation Study	MHSRS-26-3577	Capt. Shahr Ronen, M.D.