

2024 MHSRS Breakout Session Schedule

MONDAY, 26 August 2024

One-Hour Session 1300 - 1400	Two-Hour Session 1430 - 1630	Three-Hour Session 1430 - 1730
<p>Experimentation – Beyond the Bench</p> <p>Joan Cmarik, Ph.D. Moderator</p>	<p>Young Investigator Competition Plenary</p> <p>Michael J. Morris, M.D. Lt Col Adam M. Willis, USAF Moderators</p>	<p>Lessons Learned from Current Conflicts in Ukraine and Israel to Improve Combat Casualty Care Strategies</p> <p>Kimberly B. Pope, Ph.D. CAPT Travis M. Polk, USN Moderators</p>
<p>Cellular Therapeutics for Treatment of Shock and Trauma</p> <p>Barbara Christy, Ph.D. Moderator</p>		<p>Women's Health and Readiness: Health Focused Updates</p> <p>Maj Angela Phillips, USAF Lynette Hamlin Ph.D., RN Moderators</p>
<p>Directed Energy Health Effects Research for the Warfighter</p> <p>Martin LaFrance, OD, Ph.D. CDR Rachel L. Werner, USN Moderators</p>		<p>Advances in Diagnosis of TBI: Biomarkers and Beyond</p> <p>Stacey Harcum, MPH, M.S. Stephanie S. Sloley, Ph.D. Manish Bhomia, Ph.D. Moderators</p>
<p>AI/ML in Military Medicine -- Supporting Clinical Decision, Medical Readiness, and Return to Duty</p> <p>Jesus J. Caban, Ph.D. Moderator</p>		<p>Military Exposures and Subsequent Long-term Outcomes</p> <p>Col Ian J. Stewart, USAF Moderator</p>
<p>Scientific Abstracts of Distinction Plenary</p> <p>Farrukh Rizvi, Ph.D. Moderator</p>		<p>Casualty Care During Multi-Domain Operations, Large Scale Combat Operations, and Prolonged Care</p> <p>Jose Salinas, Ph.D. Nathan Fisher, M.S. Kathy Grochowski, B.A. Moderators</p>

		<p>Innovative Tools and Technologies for Predicting and Assessing Musculoskeletal Injuries of the Warfighter</p> <p>Pinata H. Sessoms, Ph.D. CDR Joshua Swift, USN Moderators</p>
		<p>Big Data and Machine Learning for Full Spectrum Military Health Readiness, Performance and Care</p> <p>Dominic E. Nathan, Ph.D. Tracey K. Koehlmoos, Ph.D. Kent Etherton, Ph.D. Moderators</p>

TUESDAY, 27 August 2024

Two-Hour Session 0800 - 1000	Two-Hour Session 1300 - 1500	Two-Hour Session 1530 - 1730
<p>An Ounce of Prevention: Next Generation Vaccines and Passive Immunoprophylaxis to Enhance Warfighter Readiness</p> <p>COL Julie Ake, USA MAJ Gina Griffith, USA Moderators</p>	<p>Improving Traumatic Wound Healing and Recovery</p> <p>Prem Yadav, Ph.D. Moderator</p>	<p>Non-traditional Treatments and Delivery Strategies for Wound Infections and Sepsis</p> <p>COL Robert J. Cybulski, USA Moderator</p>
<p>Severe Burn Injury: Strategies to Accelerate Casualty Functional Recovery</p> <p>Robin K. Walker, Ph.D. Anne McKeague, Ph.D. Bonnie J. Woffenden, Ph.D. Moderators</p>	<p>Organ Support in Trauma</p> <p>Maj Liz Powell, USAF Lt Col Richard Betzold, USAF Col Ian J. Stewart, USAF Moderators</p>	<p>Remote Damage Control Resuscitation: Innovations to Prolong the "Golden Hour"</p> <p>Robert T. Gerhardt, M.D., MPH Moderator</p>
<p>TBI Management: Epidemiology and Down Range Management</p> <p>Caryn Stern, DrPH, MPH Moderator</p>	<p>Warfighter Brain Health: Advances in Optimizing and Sustaining Cognitive Performance</p> <p>Malena B. Rone, Ph.D. Tim Dunn, Ph.D. Lars Hungerford, Ph.D. Moderators</p>	<p>Far Forward Battlefield Diagnostic Imaging</p> <p>Jonathan D. Monti, DSc, PA-C Moderator</p>
<p>Moving the Needle on Preventing Harmful Behaviors in the Military Community – Implementing Cross Agency Research Priorities – Current and Future State</p> <p>Tim Hoyt, Ph.D., MBA Fuad Issa, M.D. Melissa Mehalick, Ph.D. Sharmila A. Chari, Ph.D. Moderators</p>	<p>From Theory to Practice: Transitioning S&T Findings into Actionable Knowledge</p> <p>Kasey E. Moritz, Ph.D. James B. Phillips, Ph.D. Moderators</p>	<p>Protecting the Warfighter from Nuclear Threats: Acute Radiation Syndrome and Radiation Polytrauma</p> <p>Whitney Greene, Ph.D. David W. Evans, MPM, MSIT Moderators</p>
<p>Solutions to Accelerate Recovery from Neuromusculoskeletal Injury</p> <p>Elizabeth Russell Esposito, Ph.D. Brad D. Isaacson, Ph.D. Moderators</p>	<p>Advances in Regenerative Medicine from Point of Injury to Definitive Care and Beyond</p> <p>Jenifer Ojeda, Ph.D. Stephen M. Goldman, Ph.D. Moderators</p>	<p>Brain Impact of Sub-concussive Blast Exposure in Military Service Members: Implications for Prevention and Health</p> <p>Michael J. Roy, M.D., MPH Raj K. Gupta, Ph.D. Moderators</p>

<p>Force Health Protection: Operational Exposure Research and Predictive Risk Methods</p> <p>David R. Mattie, Ph.D., DABT Moderator</p>	<p>Assuaging Agony: Novel Pain Therapeutics</p> <p>Carmen Hinojosa-Laborde, Ph.D. Moderator</p>	<p>Optimizing the Human Weapon System: Utilizing Wearable Sensors to Inform Readiness across the Joint Force</p> <p>Malena B. Rone, Ph.D. Andrew Midzak, Ph.D. James Christensen, Ph.D. Moderators</p>
<p>Human Performance Optimization in Polar Environments</p> <p>Christopher Santee, MBA, PPM Ronald Wayne Matheny, Ph.D. Camila Mauzy, Ph.D. Doug Jones, Ph.D. Moderators</p>	<p>Case Records of the Joint Trauma System</p> <p>COL Jennifer M. Gurney, USA Moderator</p>	<p>Food and Drug Administration Regulated Activities and Collaborations with DoD</p> <p>Daniel Patterson, B.S. LTC Stuart Hobbs, USA Chandar S. Thakur, Ph.D. Thomas J. Maruna, MSc, M.A. Moderators</p>
<p>Military Female Health Research Aimed at Overcoming the Challenges and Barriers Impacting Optimal Warfighter Performance & Operational Readiness</p> <p>Elizabeth A. Kostas-Polston, Ph.D. Genny M. Cook, MPH Ava Marie S. Conlin, DO, MPH Moderators</p>	<p>Congressionally Directed Medical Research Programs and Defense Health Program Medical Research Funding Opportunities</p> <p>Rebecca A. Fisher, Ph.D. Moderator</p>	<p>From Benchtop to Battlefield - Transitioning Research to Fielded Products</p> <p>Kathleen L. Berst, MBA Moderator</p>

WEDNESDAY, 28 August 2024

Two-Hour Session 0800 - 1000	Two-Hour Session 1300 - 1500	Two-Hour Session 1530 – 1730
<p style="text-align: center;">New Approach Methodologies and Novel In Vivo Models for the Development of Infectious Disease Countermeasures</p> <p style="text-align: center;">MAJ Blair C. R. Dancy, USA LTC Charles A. DiTusa, USA Rajini R. Mudhasani, Ph.D. Eric H. Nguyen, Ph.D. Moderators</p>	<p style="text-align: center;">Strategies for Mitigating the Development of Post-traumatic Wound Infections with Multi-drug Resistant Organisms across the Continuum of Care</p> <p style="text-align: center;">Schroeder M. Noble, Ph.D. COL Robert Cybulski, USA Moderators</p>	<p style="text-align: center;">Central Role of Dental Care in Military Readiness, Operational Deployment, In-Theater Care, Post-Injury Reconstruction, and Warfighter Rehabilitation</p> <p style="text-align: center;">Rodney D. Phoenix, DDS, M.S. COL Kevin Gillespie, USA Moderators</p>
<p style="text-align: center;">Technologies for the Treatment of Battlefield Hemorrhage and Management of Vascular Dysfunction</p> <p style="text-align: center;">Thomas H. Edwards, DVM, M.S. Amy E. Wingerd, B.A., RN Moderators</p>	<p style="text-align: center;">Advances in Life Saving Interventions at Point of Injury and in Prolonged Care</p> <p style="text-align: center;">Kimberly B. Pope, Ph.D. Sylvain Cardin, Ph.D. Moderators</p>	<p style="text-align: center;">Trauma Resuscitation and Critical Care on the Future Battlefield</p> <p style="text-align: center;">Caryn Stern, DrPH, MPH Moderator</p>
<p style="text-align: center;">Novel Interventions to Address Posttraumatic Stress Disorder in Service Members and Veterans</p> <p style="text-align: center;">Michael J. Roy, M.D., MPH Moderator</p>	<p style="text-align: center;">Mental and Behavioral Health Manifestations of Anger</p> <p style="text-align: center;">Maria A. Morgan, Ph.D., MPS Marija S. Kelber, Ph.D. Moderators</p>	<p style="text-align: center;">Military Family Health and Readiness: Understanding the Interdependence of the Military Family System</p> <p style="text-align: center;">Hope McMaster, Ph.D. Elizabeth Hisle-Gorman Ph.D. Moderators</p>
<p style="text-align: center;">Advancements in Prosthetic and Exoskeletal Technologies that Facilitate Return to Duty Following Neuromusculoskeletal Injuries</p> <p style="text-align: center;">W. Lee Childers, Ph.D., CP Trevor Kingsbury, M.A. Moderators</p>	<p style="text-align: center;">Design, Prevent, and Implement: Advancements in Osseointegration Technology and Outcomes</p> <p style="text-align: center;">Kenneth Furdella, Ph.D. Jason Ghannadian, M.S. Moderators</p>	<p style="text-align: center;">Warfighter Operational Resilience: Next Generation Programs to Sustain Performance under Fire</p> <p style="text-align: center;">LTC Matthew L. LoPresti, USA Moderator</p>
<p style="text-align: center;">Treating Refractory Hypoxemia on the Battlefield: What Does the Future Hold?</p> <p style="text-align: center;">Sandy J. Snyder, Ph.D. Moderator</p>	<p style="text-align: center;">Exertional Heat Stroke: What's New in Prevention, Management and Return to Duty</p> <p style="text-align: center;">Francis G. O'Connor, M.D., MPH Moderator</p>	<p style="text-align: center;">Implementation of Evidence-based Pain Management Practices in the MHS</p> <p style="text-align: center;">Christie Vu, Ph.D. CAPT Harold Gelfand, USN Moderators</p>

<p>Current Challenges in DoD Aerospace Medicine</p> <p>John S. Crowley, M.D., MPH Rachel Kinsler, M.S. Moderators</p>	<p>Undersea Operational Research Panel</p> <p>Ben D. Lawson, Ph.D. Moderator</p>	<p>Ocular Optimization: Before and After Injury</p> <p>MAJ Nathan Davidson, USA Mariia Viswanathan, M.D., Ph.D. Moderators</p>
<p>Novel Treatments, Strategies and Technologies in Hearing and Balance Health</p> <p>Mei Sun, Ph.D. Amy Boudin-George, AuD Stacey Harcum, MPH, M.S. Moderators</p>	<p>4 Legged Warriors: Military Working Dogs at the Tip of the Spear</p> <p>LTC Jarod Hanson, USA Moderator</p>	<p>Genetic Readiness of the Force: Genetics and Integrative Omics for Optimizing Warfighter Health and Performance</p> <p>Juvianee Estrada-Veras, M.D. Moderator</p>
<p>Ethical and Regulatory Considerations in DoD-Supported Research: Biosecurity, AI/ML Analytics, and DoD Collaboration</p> <p>Laura R. Brosch, RN, Ph.D. Moderator</p>	<p>An Overview of the DHA Tech Transfer Program and Processes</p> <p>Paul G. Michaels, eJD Moderator</p>	<p>Global Health Engagement Research in Combatant Commands</p> <p>Danny Shiao, M.D. MPH COL Matthew R. Scherer, USA Moderator</p>

THURSDAY, 29 August 2024

Thirty-Minute Session 0800 - 0830	Two-Hour Session 0845 - 1045	Two-Hour Session 1115 - 1315
MHSRS Awards (Posters and Young Investigators)	Innovative Technologies and Devices for Treatment of Battlefield Wounds in Prolonged Care to Prevent Infection Arthi A. Amin, Ph.D. LTC Sheila Johnson, USA Brian Coyne, B.S. Moderators	Update in Emerging Infectious Diseases of Military Importance: Predicting and Preventing Future Outbreaks in Military Settings CAPT Andrew G. Letizia, USN Moderator
	Clinical Studies to Advance Combat Casualty Care Kimberly B. Pope, Ph.D. George Jiang, M.D. Moderators	Novel Strategies for Treatment of Shock or Blood Failure: Blood and Blood Products Michael Adam Meledeo, Ph.D. Moderator
	Managing Fatigue in the DoD: Methodologies for Sleep and Circadian Measurement Malena B. Rone, Ph.D. Moderator	Solutions Addressing Behavioral Health Clinician Shortage - Leveraging Telebehavioral Health Sharmila A. Chari, Ph.D. Tim Hoyt, Ph.D., MBA Moderators
	Applications of Artificial Intelligence in Psychological Disorders Ruoting Yang, Ph.D. Moderator	Musculoskeletal Injury Prevention: Highlighting Vulnerable Warfighters Joseph G. Wasser, Ph.D. Moderator
	Advances in Blast Polytrauma: Implications to Warfighter Function and Combat Casualty Care Michael J. Urban, Ph.D. Pamela VandeVord, Ph.D. Moderators	Challenges and Opportunities of High Volume, Prolonged Medical Mobility and CASEVAC During Large Scale Combat Operations Lt Col Nelson Pacheco, USAF Rachel Kinsler, M.S. Moderators
	Military Injury Biomechanics for the Prevention of Behind Helmet and Behind Armor Blunt Trauma Frederick T. Brozoski, M.S. Thuvan Piehler, Ph.D. Moderators	