



# MHSRS Posters Grouped by Session

Session #	Poster #	Sal	First Name	Last Name	Abstract Title
Session 1	14	Mr.	Garrett	Flores	Materials Available to Tactical Medical Personnel for Constructing Field Improvised Exoskeletons
Session 1	103	Ms.	Jasmine	Proctor	Does Patient Sex Influence TCCC Care: Is This Still a Problem?
Session 1	235	Dr.	Kristo	Nuutila	Po Topical Treatment with Non-Euphoric Phyto Cannabinoid Elixir 14 (NEPE14) Reduces Inflammation and Mitigates Burn Wound Progression
Session 1	351	Dr.	Yuan-Chiao	Lu	Comparison of Image-Based and Statistical Approaches for Retrospective Harmonization of Heterogeneous Magnetic Resonance Imaging Data
Session 1	353	Mr.	William	Patino	Enabling Clinical Research in De-Identified Cloud Computing Environments
Session 1	399	Dr.	Dominic	Nathan	Managing DoD Clinical Trials and Research Using Custom Developed Standardized Informatics Tools: Lessons Learnt and Best Practices
Session 1	400	Dr.	Dominic	Nathan	Exploring Predictive Analytics of Post-Traumatic Stress Outcomes in Chronic mTBI Subjects Using Machine Learning: Implications for Treatment
Session 1	401	Dr.	Dominic	Nathan	The Use of Machine Learning for Traumatic Brain Injury Research: Strengths, Limitations and Future Directions
Session 1	410	Mr.	Adam	Bacik	Survey of Medical Simulation Training in MARCH/PAWS Skills in the U.S. Military
Session 1	414	Dr.	Vidya	Kumar	YK-4-250, A Novel Angiotensin Receptor Blocker Mitigates GI-ARS

<b>Session 1</b>	<b>469</b>	Dr.	Ting-Lan	Ma	Occupational Well-Being of Women in the Military Medicine
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<b>Session 2</b>	<b>21</b>	Dr.	Yuan-Chiao	Lu	An Imaging Biomarker for Identifying Edema in Acute Traumatic Brain Injury Patients Based on Ventricular Volume Change
<b>Session 2</b>	<b>78</b>	Ms.	Isabelle	Wal	Sex-Differences in Early/Unplanned Separation Among U.S. Service Members with a History of mild Traumatic Brain Injury
<b>Session 2</b>	<b>81</b>	Ms.	Melinda	Tung	Comparing Self-Reported Cognitive Symptom Changes of Service Members with mild Traumatic Brain Injury After Participation in a Computer-Based Cognitive Training Platform
<b>Session 2</b>	<b>82</b>	Ms.	Melinda	Tung	An Evaluation of Headache Treatment and Clinical Improvement Among Service Members at Outpatient Traumatic Brain Injury Clinics within the Military Health System
<b>Session 2</b>	<b>83</b>	Ms.	Melinda	Tung	Examining Clinical Improvement on the Neurobehavioral Symptom Inventory Among Service Members Treated for mild Traumatic Brain Injury in the MHS
<b>Session 2</b>	<b>84</b>	Ms.	Melinda	Tung	Examining the Healthcare Utilization of Service Members Treated for mild Traumatic Brain Injury within the Military Health System Who Clinically Improved
<b>Session 2</b>	<b>97</b>	Dr.	Dominic	Nathan	Traumatic Brain Injury Mobile App Selection for Symptom Management and Rehabilitation: A Practical Framework for Clinicians, Care Givers and Patients
<b>Session 2</b>	<b>108</b>	Ms.	Olivia	Shaw	Challenges While Recruiting Service Members and Veterans for a Digital Therapeutic App to Combat Symptoms of Depression
<b>Session 2</b>	<b>113</b>	Dr.	Manish	Bhomia	Service Dog Training Program Improves the Serum Cortisol and Brain Derived Neurotropic Factor (BDNF) in Service Members with Post-Concussive Symptoms and Post Traumatic Stress
<b>Session 2</b>	<b>119</b>	Mrs.	Megan	Tsui	Impact of Education Levels on Patient Compliance: Characteristics of Service Members with Traumatic Brain Injury at a Cognitive Rehabilitation Center
<b>Session 2</b>	<b>156</b>	Dr.	Caroline	Browne	Prolonged High Altitude and mild Traumatic Brain Injury Results in Discrete Neuropathological and Cognitive Impairment
<b>Session 2</b>	<b>210</b>	Dr.	Patricia	Spangler	How Biomarkers of Stress Relate to Exposure to Nightmares During Treatment Visits: Results from a Pilot Trial of Nightmare Deconstruction of Reprocessing
<b>Session 2</b>	<b>233</b>	Ms.	Shannon	Fichter	The Efficacy of Service Dog Training in Treating Service Members with Post-Traumatic Stress and Anxiety
<b>Session 2</b>	<b>242</b>	Dr.	Adam	Walsh	A Novel Mentoring Model to Increase Fidelity of Suicide Prevention Gatekeeper Training: A Pilot Evaluation Study of safeTALK in the United States Coast Guard
<b>Session 2</b>	<b>289</b>	Dr.	Peter	Bedocs	Evaluation of the Efficacy, Retention, and Potential for Continued Longevity of the Walter Reed National Military Medical Center Pain Registry Biobank

<b>Session 2</b>	<b>368</b>	Dr.	Catherine	Dempsey	<b>Firearm Behavioral Practices and Suicidal Behaviors Among U.S. Army Service Members: Implications for Suicide Prevention</b>
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<b>Session 2</b>	<b>377</b>	Dr.	Adam	Walsh	<b>Peer Adaptation of an Evidence Based Approach to Firearm Safe Storage: A Formative Evaluation of Four Training Sites in the National</b>
<b>Session 2</b>	<b>395</b>		Martin	Cota	<b>A Randomized, Controlled, Blinded Study of Internet -Guided Cognitive Behavioral Therapy for Insomnia in Military Service Members and Veterans with History of Traumatic Brain Injury</b>
<b>Session 3</b>	<b>17</b>	Dr.	Simon	Pollett	<b>Non-Workplace SARS-CoV-2 Exposure Risk is Associated with Incident COVID-19 Among Vaccinated Healthcare Workers in a Tertiary-Level Military Treatment Facility</b>
<b>Session 3</b>	<b>24</b>	Dr.	Hua-Wei	Chen	<b>Comparison Between Reverse Transcription Droplet Digital and Quantitative PCRs for Determination of Viral RNA Copy Numbers in COVID-19 Patient Plasma</b>
<b>Session 3</b>	<b>39</b>	Ms.	Viktoria	Van Nederveen	<b>Characterization of the Biofilm from enteroaggregative Escherichia coli isolates with Different Fimbrial Types</b>
<b>Session 3</b>	<b>44</b>	Dr.	Renhua	Li	<b>Host CD3+ T-Cells Can Significantly Modulate Phage Treatment Effects on Bacterial Bioburden in Mouse Models</b>
<b>Session 3</b>	<b>98</b>	Ms.	Elizabeth	Chiyka	<b>Improved Sepsis Prognostic Assays Achieved with Multi-Modal Data Streams</b>
<b>Session 3</b>	<b>99</b>	Dr.	Renee	Laird	<b>Research and Development of Hyperimmune Bovine Colostrum Products for the Prevention of Travelers' Diarrhea</b>
<b>Session 3</b>	<b>118</b>	Dr.	Donald Jr	Aduba	<b>Deploying Bioactive Peptides in Bioprinted Dermal-Epidermal Composites for Improved Skin Regeneration</b>
<b>Session 3</b>	<b>123</b>	Dr.	Sandhya	Xavier	<b>Use of Next Generation Bioactive Peptides in Skin Substitutes to Promote Wound Healing and Skin Regeneration</b>
<b>Session 3</b>	<b>156</b>	Dr.	Sandra	Mayer	<b>Characterization of Dengue Live Virus Human Challenge (LVHC) Strains in Primary Human Cell Lines</b>
<b>Session 3</b>	<b>159</b>	Dr.	Ahmad Faisal	Karim	<b>Generation of Therapeutic Human Monoclonal Antibodies Against Hantaviruses from Human-Immune-System Humanized DRAGA Mice</b>
<b>Session 3</b>	<b>217</b>	Mr.	Dylan	Scarton	<b>Conductive DNA-Based Hydrogels for Rational Design of Tissue Engineering Scaffolds</b>
<b>Session 3</b>	<b>222</b>	Ms.	Alyssa	Salazar	<b>Socket Fit, Comfort, and Pain During Military Specific Tasks with an Adaptable Transtibial Socket</b>
<b>Session 3</b>	<b>290</b>	Mr.	Michael	Smuda	<b>Active Duty and Veterans' Holistic Musculoskeletal Management and Enhancement (ADVet HOMME): A Program Overview</b>
<b>Session 3</b>	<b>397</b>	Dr.	Renhua	Li	<b>Non-Invasive Immune Monitoring After Vascularized Composite Allotransplantation: Predictive Modeling from a Preclinical Swine Hind Limb Transplant Model to Human Upper Extremity Transplant Recipients</b>
<b>Session 3</b>	<b>398</b>	Dr.	Felipe	Lisboa	<b>External Validation Confirms IL8, IL15 and Wound Size May Predict the Development of Heterotopic Ossification in Combat-Related Extremity Trauma by Hospital Admission</b>

<b>Session 3</b>	<b>399</b>	Dr.	Scott	Grey	Using Healthcare Utilization Data and Machine Learning Algorithms to Identify Military Beneficiaries with Nonalcoholic Fatty Liver Disease
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<b>Session 3</b>	<b>407</b>	Dr.	Kelly	Conrads	An Analytically Ready and a Ready Analytical Clinical Proteomics Capability for Military Health System Precision Medicine Applications
<b>Session 3</b>	<b>411</b>	Dr.	Nicholas	Bateman	A Protein Expression Signature of TMPRSS2-ERG Gene Fusion and ERG Protein Overexpression in Prostate Cancer
<b>Session 3</b>	<b>414</b>	Mrs.	Austin	Pagani	Addressing the Gap in Cardiogenetics Care within the MHS
<b>Session 3</b>	<b>426</b>	Ms.	Lydia	Hellwig	A Multidisciplinary Evaluation of Sudden Death in the Military Health System: Protecting Those Left Behind
<b>Session 3</b>	<b>427</b>	Dr.	Nyamkhishig	Sambuughin	Genomics of Exertion-Related Events Associated with Sick Cell Trait (GERESCT) Study: Pilot Study of Whole Genome Methylation Analyses
<b>Session 3</b>	<b>473</b>	Dr.	Michael	Cranston	Evidence of Astrocyte Endfoot Injury in the Brains of Blast-Exposed Military Personnel: A Postmortem Ultrastructural Analysis