

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event
Sunday 17 Aug			
0900-1700		Air Force Medical Service Breakout	Air Force Medical Service Breakout
1900-2030		By Invitation Only Armed Services Biomedical Research Evaluation and Management Meeting	Rear Admiral Bruce A. Doll
Monday 18 Aug			
0745-		Welcome & Administrative Remarks	Terry Rauch, PhD & COL Dallas Hack, USA
0800-		Keynote Presentation (Title TBD)	Dr. David J. Smith Deputy Assistant Secretary of Defense for Force Health Protection and Readiness
		(Title TBD)	Lt. Gen. Douglas J. Robb, USAF Director Defense Health Agency
		(Title TBD)	Rear Admiral Bruce A. Doll Director, Research, Development & Acquisition Defense Health Agency
		(Title TBD)	Vice Admiral Matthew T. Nathan Surgeon General of the Navy
-1005		(Title TBD)	Invitation Sent HOLD
1005-1030		Break	Break
1030-1200		Joint Trauma System Presentation & Panel Discussion	Moderator CAPT Zoldt Stockinger, USN
1200-1300		Lunch	Lunch
1300-1500		Breakout Sessions	Breakout Sessions
		Training & Skills Sustainment Combat Casualty Simulation & Training	Moderator Janet Harris, PhD
		MHSRS-78 Difficult Airway Management for Novice Physicians: A Randomized Trial Comparing Direct and Video-Assisted Laryngoscopy	Ambrosio
		MHSRS-837 Training and retention effects for first-responder competency in cholinergic crisis management	Klotz and Andreatta
		MHSRS-478 Recognition and treatment of nerve agent casualties: evidence of reduced learner engagement during video based training	Bukoski
		MHSRS-891 Just in Time Learning is Effective in Helping First Responders Manage Weapons of Mass Destruction Events.	Motola and Burns
		MHSRS-669 Medical Simulations and Training: Defining Requirements from Frontline SOF Medical Providers to Influence Simulation Development with the Goal of Reducing Capability Gaps for Future Conflicts	Bowling
		MHSRS-560 A Comparison of Two Medical Training Modalities for CAF Medical Technicians: Live Tissue Training and High Fidelity Patient Simulator	Savage
		MHSRS-374 Bridging Combat Casualty Burn Care Education with High Fidelity Human Patient Simulation	Hayes

		<p>MHSRS-1184 Event Driven Surgical Gesture Recognition: Test and Performance Comparison</p>	Gianluca
		<p>Trauma Care - Enroute Care</p> <p>MHSRS-191 Utility of vital signs, heart-rate variability and complexity, and machine learning for identifying the need for life-saving interventions in trauma patients</p> <p>MHSRS-223 Pressure Ulcer Development in Critical Care Air Transport Team Patients: A Case-Control Study</p> <p>MHSRS-337 Can an Intelligent Alerting System Identify Patients with Substantial Bleeding during Transport to a Trauma Center?</p> <p>MHSRS-407 Predicting Blood Transfusion Using Automated Analysis of Pulse Oximetry Waveforms and Lab Values</p> <p>MHSRS-489 Prehospital blood transfusions during aeromedical evacuations of trauma patients in Israel</p> <p>MHSRS-706 Flow Cytometry Analysis of Myeloid Cells After Crush Injury and Simulated Flight</p> <p>MHSRS-733 Biological effects of vibration simulating helicopter transport on spinal cord injured pigs</p> <p>MHSRS-876 En route Use of Parenteral Opioids, Ketamine, and Epidural Analgesia to Treat Pain in Patients Transported out of the Combat Theater by US Air Force Critical Care Air Transport Teams (CCATT)</p>	<p>Moderators Lt Col Jennifer Hatzfeld, USAF and Lt Col Vikhyat Bebarta, USAF</p>
		<p>Trauma Care - Blood/Blood Products</p> <p>MHSRS-323 THE EVOLUTION OF PEDIATRIC COMBAT TRANSFUSION PRACTICE</p> <p>MHSRS-433 Magnesium Sulfate Supplementation Promotes the Response of Cold Stored Platelets to Aggregation and Coagulation Stimuli Over Eight Days</p> <p>MHSRS-463 4°C Platelet Storage Reduces Reactive Oxygen Species, Preserves Mitochondrial Function, and Reduces Fibrinolysis</p> <p>MHSRS-499 A Freeze Dried Plasma alternative to Fresh Frozen Plasma with improved handling to enable point-of-injury care.</p> <p>MHSRS-587 Whole blood treated with Riboflavin and UV Light: inactivation of malaria parasite and and blood conservation at 4°C</p> <p>MHSRS-594 Syndecan-1 Mediated Gut Protection by Fresh Frozen and Lyophilized Plasma After Hemorrhagic Shock</p> <p>MHSRS-654 UPDATE - Clinical Development of a Spray Dried Solvent Detergent Treated Plasma</p> <p>MHSRS-731 Platelets Modulate Vascular Stability in Trauma and Hemorrhage: Assessing the Donor Variability and the Storage Lesion of Platelets</p> <p>MHSRS-936 Blood product resuscitation is not hemostatic in trauma patients undergoing surgical debridement</p>	<p>Moderator Heather Pidcoke, PhD</p>

		MHSRS-1000 Thrombus formation and platelet adhesion: A quantitative system to evaluate platelet function in vivo	
		Psychological Health & Rehabilitation & Recovery Sensory Issues - Vision, Hearing & Balance MHSRS-304 Restoration of Sight with Photovoltaic sub-Retinal Prosthesis MHSRS-950 Warfighter Performance and Hearing Preservation: Achieving the Synergy MHSRS-974 A New ANSW2R to the Problem of Neurosensory Polytrauma MHSRS-979 Evaluation of aurally-aided visual search performance for individuals maneuvering on foot MHSRS-1002 Military Medical Research Intelligence: Requirements and Solutions MHSRS-1066 Evaluation and Treatment of Single Sided Deafness MHSRS-1085 UPDATE ON VESTIBULAR EVALUATION AND TREATMENT MHSRS-1101 Tinnitus Re-Organization Training: Combining modulated music with transcortaneous vagal nerve stimulation to alleviate combat-related tinnitus MHSRS-1196 Translational Research: From the Bench to the Battlefield	Moderators CAPT Michael Hoffer, USN, Lynn Henselman, PhD, and LTC James Crawford, USA
1500-1530		Break	Break
1530-1730		Breakout Sessions	Breakout Sessions
		BioInformatics - Supporting Warrior Care	Moderators Francis McVeigh, OD and Lori Loan, PhD
		MHSRS-535 The Impact of a Mobile Messaging System on Case Management Assessment, Contact Rate Requirements and Appointment Reminder Support	Pavlicsak
		MHSRS-387 A Concept Recognition Tool to Identify the Surgical Complications of Crohn's Disease in Electronic Health Records	Dunn
		MHSRS 942 Improving Human Computer Interaction in Electronic Medical Records through Design and Data Visualization	Goranson
		MHSRS-132 Utilization of Telemedicine in the U.S. Military in a Deployed Setting	Meyerle
		MHSRS-282 Developing a Cognitive and Communications Tool for Burn ICU Clinicians	Nemeth
		MHSRS-878 A large-scale mTBI Informatics Database: Fostering Innovation, Research, and Development for mTBI/PTSD	Caban
		MHSRS-768 COPTADS: CLINICAL ONLINE PTSD AND TBI ANALYSIS AND DETECTION SYSTEM	Kagan
		Trauma Care - Hemorrhage Control & Resuscitation MHSRS-67 Junctional Hemorrhage Control: Update on Out-of-Hospital Interventions	Moderators Michael Dubick, PhD and CAPT Zoldt Stockinger, USN

		<p>MHSRS-155 A CONTROLLED RESUSCITATION STRATEGY IS FEASIBLE AND SAFE IN HYPOTENSIVE TRAUMA PATIENTS: RESULTS OF A PROSPECTIVE RANDOMIZED PILOT TRIAL</p> <p>MHSRS-319 Pre-hospital Use Of Hemostatic Bandages By The Israeli Defense Force Medical Corps. A Report Of 31 Cases.</p> <p>MHSRS-730 FFP and SDP Mitigate the Endotheliopathy of Hemorrhagic Shock (HS) and Trauma Associated Acute Lung Injury (ALI)</p> <p>MHSRS-1076 Aortic Hemostasis and Resuscitation: Sequential Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA) and Selective Aortic Arch Perfusion (SAAP) in a Swine Model of Severe Hemorrhage and Cardiac Arrest</p> <p>MHSRS-1105 Does TXA matter? Refining indications for its use in the combat trauma population.</p> <p>MHSRS-1194 Pre-hospital blood products after battlefield trauma: benefit unclear</p>	
		<p>Psychological Health & Rehabilitation & Recovery Psychological Health - Post Traumatic Stress Disorder in Primary Care Settings MHSRS-296 Neuropsychiatric Diagnoses Associated with Genitourinary Injury in Male Veterans of OEF/OIF Receiving Care at Veterans Administration Health Care Facilities</p> <p>MHSRS-580 Impact of Posttraumatic Stress Disorder and Inflammation on Somatic Symptoms: A Cross-Sectional Analysis of Combat-Exposed Service Members</p> <p>MHSRS-621 Virtual-Reality Exposure Therapy for Combat-Related PTSD: Examination of Perceived Contraindications and Iatrogenic Effect Trajectories</p> <p>MHSRS-954 Collaborative Primary Care for Depression and PTSD in the U.S. Military Health System: Design and Early Findings from STEPS UP, a Multisite Randomized Effectiveness Trial</p>	<p>Moderator Ronald Hoover, PhD</p>
		<p>Psychological Health & Rehabilitation & Recovery Prosthetics & Rehabilitation</p> <p>MHSRS-63 Blood Flow Restricted Training as a Rehabilitation Modality: A Case Series</p> <p>MHSRS-556 Towards Clinically Viable Neural Control of Powered Lower-Limb Prostheses</p> <p>MHSRS-703 A Bionic Ankle Prosthesis, Odyssey, Restores Powered Push-Off During Walking and Running for Transtibial Amputees</p> <p>MHSRS-725 Using Multiple High-Count Electrode Arrays in Residual Arm Nerves to Restore Sensorimotor Function After Hand Amputation</p> <p>MHSRS-771 Monitoring Energy Expenditure in Amputees: A Prosthetic-Integrated Wearable Sensor System</p>	<p>Moderators CAPT Lanny Boswell, USN and Ms. Katherine Stout</p>
1900-2100		Assistant Secretary of Defense (Health Affairs) Reception	Assistant Secretary of Defense (Health Affairs) Reception
Tuesday 19 Aug			
0800-0805		Administrative Remarks	Moderator TBD
0805-0830		Keynote Presentation Sustaining Innovation and Excellence in Military Medicine--The Challenge of Contingency	Brigadier Timothy J. Hodgetts, CBE, PhD, MMed, MBA Medical Director, Joint Medical Command

0830-0845		Training & Skills Sustainment - Combat Casualty Simulation & Training Plenary Competitive Abstract MHSRS-571 Comparing Live Animal & Simulator Alternatives for Training & Assessing Hemorrhage & Airway Procedures in a Tactical Field Situation	Robert M. Sweet, MD, FACS University of Minnesota Minneapolis, MN
0845-0900		Trauma Care - Enroute Care Plenary Competitive Abstract MHSRS-823 Hypoxemia During Aeromedical Evaluation of the Walking Wounded	Col Jay Johannigman, USAFR, MD University of Cincinnati Cincinnati, OH
0900-0915		Psychological Health & Rehabilitation & Recovery Plenary Sensory Issues - Vision, Hearing & Balance Competitive Abstract MHSRS-91 A Retrospective Study of Hearing Thresholds of Acoustic Trauma Patients from OEF/OIF in 2009	LTC D. Scott McIlwain, Au.D. U.S. Army Aeromedical Research Laboratory Ft. Rucker, AL
0915-0930		Trauma Care - Blood/Blood Products Plenary Competitive Abstract MHSRS-1001 Storage of Platelets at 4o in Platelet Additive Solutions Prevents Aggregate Formation & Preserves Platelet Functional Responses	Todd M. Getz, PhD U.S. Army Institute of Surgical Research Fort Sam Houston, TX
0930-1000		Break	Break
1000-1200		Young Investigator Competition	Moderator David Baer, PhD
		Neurotrauma/Traumatic Brain Injury Competitive Abstract MHSRS-761 Emerging Role of Blood Biomarkers in TBI Clinical Trials: Initial Findings from the Phase II INTREPID2566 Trial	Stefania Mondella, MD, MPH, PhD University of Messina Messina, Italy
		Trauma Care - Enroute Care Competitive Abstract MHSRS-828 Evaluation of High-Dose Hydroxocobalamin and Ascorbic Acid as an Injectable Antidote for Carbon Monoxide Poisoning	Lt Joseph D. Roderique, USN, MD Naval Medical Center San Diego San Diego, CA
		Neurotrauma/Traumatic Brain Injury Competitive Abstract MHSRS-775 Moderate and Severe Brain Injury Among Combat Casualties: Secondary Insult Analysis	CPT Donald Keen, USA Brooke Army Medical Center San Antonio, TX
		Human Performance & Occupational Health Injury Prevention - Skeletal & Muscular Injuries Competitive Abstract MHSRS-402 Effectiveness of an Injury Prevention Warm-Up for Unit Physical Training	Capt Joshua D. Shumway, PT, DPT, CSCS David Grant Medical Center Travis Air Force Base, CA
		Trauma Care - Burn & Intensive Care Competitive Abstract MHSRS-900 Nebulized Epinephrine Limits Pulmonary Vascular Hyperpermeability to Water and Proteins in Ovine Burn and Smoke Inhalation Injury	Ernesto Lopez, MD University of Texas Medical Branch Galveston, TX
		Trauma Care - Blood/Blood Products Competitive Abstract MHSRS-1012 Improved Clot Strength of Refrigerated Platelets for Transfusion	Prajeeda Nair, MS The University of Texas at San Antonio San Antonio, TX
		Human Performance & Occupational Health Competitive Abstract MHSRS-340 Can We Predict How Sleep Loss Impairs Human Performance?	Sridhar Ramakrishnan, PhD DoD Biotechnology High Performance Computing Software Applications Institute Ft Detrick, MD

		Neurotrauma/Traumatic Brain Injury Competitive Abstract MHSRS-422 In-Theater mTBI Screening: Normative Versus Baseline ANAM4 Data	Lt Jay Haran, USN, PhD Navy Experimental Diving Unit Panama City Beach, FL
		Trauma Care - Prehospital & Combat Casualty Care Competitive Abstract MHSRS-56 A Novel Anatomical and Physiological Scoring System for Military Pelvic and Perineal Blast Injuries Shows Significantly Superior Predictive Outcomes Than Current Scoring Systems: Injury Severity score, ISS, New ISS, Trauma Trauma Care - Prehospital & Combat Casualty Care	Fit Lt Somayyeh Mossadegh, BM, Royal Air Force Royal Centre for Defence Medicine United Kingdom
		Trauma Care - Prehospital & Combat Casualty Care Competitive Abstract MHSRS 351 The Adrenal Response to Injury in Mauritian Cynomolgus Macaques : A Comparison Between Isolated Hemorrhage and Polytrauma Models	CPT Vincente V. Nelson, USA, MD Walter Reed National Military Medical Center Bethesda, MD
		Trauma Care - Burn & Intensive Care Competitive Abstract MHSRS-963 Porcine Large Total Body Surface Area (TBSA) Contact Burn for Investigating Immunomodulators to Reduce Systemic Inflammatory Response Syndrome (SIRS)	David Burmeister, PhD U.S. Army Institute of Surgical Research San Antonio, TX
		Trauma Care - Prehospital & Combat Casualty Care Competitive Abstract MHSRS-52 Design and Development of a Controlled Spinal Cord Impactor for Use in Large Animal Models of Acute Traumatic Spinal Cord Injury	CPT Rory J. Petteys, USAR, MD Johns Hopkins University School of Medicine Georgetown University Hospital Washington, DC
		HOLD	Awaiting Confirmation of Attendance
1200-1300		Lunch	Lunch
1200-1400		Lunchtime Breakout Session Hyperbaric Oxygen Therapy for mild Traumatic Brain Injury DoD Research Project	Moderator CDR Rene Hernandez, USN
1300-1500		Poster Session 1	Poster Session 1
1500-1530		Break	Break
1530-1730		Breakout Sessions	Breakout Sessions
		Training & Skills Sustainment Military Medical Skills Acquisition & Sustainment	Moderators Mr. Harvey Magee and Lori Loan, PhD
		MHSRS-1035 Retention and Retraining of Integrated Cognitive and Psychomotor Surgical Skills	Skinner
		MHSRS-805 Training and retention outcomes from two forms of pediatric and neonatal intubation training	Andreatta and Klotz
		MHSRS-241 Can performance be predicted early on?	Glassberg
		MHSRS-431 Alternative Approach to Establish Inter-Rater Concordance	Hendricks
		MHSRS-513 Preparing Surgeons for Modern Combat Trauma Care: Experience with the Advanced Surgical Skills for Exposure in Trauma (ASSET) Course for Pre-employment Training	Bowyer
		MHSRS-667 Development of a Trauma Readiness Metric Score for Surgeons	Garafalo and Hu

		<p>MHSRS-719 Effectiveness of hemodynamics simulator in teaching novice trainees the treatment of shock</p>	<p>Frank</p>
		<p>Psychological Health & Rehabilitation & Recovery Psychological Health - Resilience</p> <p>MHSRS-237 ATTRACTING SUBSTANCE ABUSING SOLDIERS TO VOLUNTARILY TAKE STOCK OF THEIR USE: PRELIMINARY OUTCOMES FROM THE WARRIOR CHECK-UP MET INTERVENTION</p> <p>MHSRS-411 Job Interview Training Simulation Builds Skills and Confidence to Help Veterans Reintegrate</p> <p>MHSRS-439 Post-deployment Issues of National Guard: A Comparative Case Study of how Access to VA Benefits Affect Reintegration with Family and Civilian Employment</p> <p>MHSRS-1049 Annual Fitness Test Performance and Mental Health Outcomes in US Marines</p> <p>MHSRS-1198 Comprehensive Soldier and Family Fitness (CSF2) Program Evaluation Initiatives</p>	<p>Moderator Kate Nassauer, PhD</p>
		<p>Physiologic Monitoring</p> <p>MHSRS-320 Characterization of the changes in Compensatory Reserve Index during major bleeding in porcine model</p> <p>MHSRS-338 Can Prehospital Vital Signs Help Identify Traumatic Brain Injury?</p> <p>MHSRS-445 Utility of a Near-Infrared Reflectance Spectroscopy Oximeter in Shock</p> <p>MHSRS-707 Cardiac Output Monitoring Managing Intravenous Therapy (COMMIT) to Resuscitate Emergency Department Severe Sepsis</p> <p>MHSRS-893 Wearable Sensing and Machine Learning for Human Physical Activity Assessment</p> <p>MHSRS-1108 Laser speckle-based microvascular blood flow monitoring for critical care</p>	<p>Moderators Victor Convertino, PhD and Jaques Reifman, PhD</p>
1530-1800		<p>Expeditionary & Sea Based Care & Global Disaster Response</p> <p>MHSRS-47 THE POTENTIAL OF PORTABLE OXYGEN CONCENTRATORS TO PROVIDE OXYGEN FOR REMOTE DIVING CASUALTIES</p> <p>MHSRS-258 Extending a helping hand over a hostile border –Unique ethical dilemmas involving the humanitarian aid mission to the victims of the Syrian civil war</p> <p>MHSRS-562 Exploratory Laparotomy for Proximal Vascular Control Is Associated With Significant Morbidity In Combat Trauma</p> <p>MHSRS-577 Ratio Driven Resuscitation Predicts Early Fascial closure in The Combat Wounded</p> <p>MHSRS-722 Differential Impact of General and Deployment-Specific Stressors on Marines' Mental Health Outcomes</p>	<p>Moderators Wayman Cheatham, MD and Elon Glassberg, MD</p>

		MHSRS-907 Oral vs. IV Hydration in Rhabdomyolysis	
		MHSRS-772 Medical evacuations from the United States Navy Submarine Fleet: January 2012 through December 2013	
1800-2000		Poster Session 2	Poster Session 2
1900-2100		USN/Marine Corps Service Breakout	USN/Marine Corps Service Breakout
Wednesday 20 Aug			
0800-0805		Administrative Remarks	Moderator TBD
0805-0830		Keynote Presentation (Title TBD)	Charles L. Rice, MD President, Uniformed Services University of the Health Sciences
0830-0845		Invited Talk (Title TBD)	Invitation Sent HOLD
0845-0900		Expeditionary & Sea Based Care & Global Disaster Response Invited Talk (Title TBD)	Invitation Sent HOLD
0900-0915		Psychological Health & Rehabilitation & Recovery Plenary Prosthetics & Rehabilitation Competitive Abstract MHSRS-520 Fall Prevention Training for Warfighters w/Lower Extremity Amputations	Kenton R. Kaufman, PhD, PE Mayo Clinic Rochester, MN
0915-0930		Trauma Care - Hemorrhage Control & Resuscitation Plenary Competitive Abstract MHSRS-740 Tactical CCC Guidelines Recommending Hetastarch Use at POI Do Not <u>Require Revision</u>	COL Kirby R Gross, USA, MD Joint Trauma System San Antonio, TX
0930-0945		Bioinformatics - Supporting Warrior Care Plenary Competitive Abstract MHSRS-217 The Power of Mobile: Enabling the Medical War Fighter Today and in the <u>Future</u>	COL Daniel R. Kral, USA, MS Telemedicine and Advanced Technology Research Center Ft Detrick, MD
0945-1000		Trauma Care - Prehospital & Tactical Combat Casualty Care Plenary Competitive Abstract MHSRS-705 Early In-Theatre Management of Combat Related TBI: A Prospective, Observational Study to Identify Opportunities for Performance Improvement	Col Raymond Fang, USAF, MD US Air Force Center for Sustainment of Trauma and Readiness Skills Baltimore, Maryland
1000-1030		Break	Break
1030		Administrative Remarks	Moderator
1030-1045		Psychological Health & Rehabilitation & Recovery Plenary Post Traumatic Stress Disorder in Primary Care Settings Competitive Abstract MHSRS-767 Cerebral Glucose Metabolism During Wake & Sleep Predicts response to Prasosin in Military Veterans with PTSD	Anne Germain, PhD University of Pittsburgh Pittsburgh, PA
1045-1100		Trauma Care - Burn & Intensive Care Plenary Competitive Abstract MHSRS-230 Impact of Anemia in Critically Ill Burned Casualties Evacuated From Combat Theatre Via CCATT	Maj Joshua A. Hamilton, USAF, MD San Antonio Uniformed Services Health Education Consortium San Antonio, TX
1100-1115		Psychological Health & Rehabilitation & Recovery Plenary Resilience Competitive Abstract MHSRS-80 Sexual Trauma & Adverse Health & Military Occupational Outcomes of Women Serving in the US Military	LDCR Jeffrey Millegan, MD, PhD, USN Naval Medical Center San Diego San Diego, CA
1115-1130		Neurotrauma/Traumatic Brain Injury Plenary Competitive Abstract MHSRS-1163 Pathobiology of Impact Concussion & Sequelae in a Mouse Model of mTBI	Lee Goldstein, MD NIH Alzheimer's Disease Center, Boston University Boston, MA

1130-1145		Psychological Health & Rehabilitation & Recovery Plenary Suicide Competitive Abstract MHSRS-94 Brief Cognitive Behavioral Therapy Reduces Post Treatment Suicide Attempts in a Military Sample - Results of a Two Year Randomized Clinical Trial	M. David Rudd, PhD, ABPP University of Memphis Memphis, TN
1145-1200		Human Performance & Occupations Health Plenary Human Performance Research Competitive Abstract MHSRS-1201 Brain Injury: Relationship to Military Occupational Hypobaric Exposure	Stephen McGuire, MD University of Texas Health Science Center San Antonio, TX
1200-1300		Lunch	Lunch
1200-1300		Lunchtime Breakout Session Ft Benning Study (Methicillin Resistant Staphylococcus Aureus/Skin & Soft Tissue Injury)	Moderator CDR Gail Chapman, USN
1300-1500		Breakout Sessions	Breakout Sessions
		Human Performance & Occupational Health Human Performance Research MHSRS-96 Biomechanical Differences of the Warfighter When Wearing Load-Distributing Personal Protective Equipment Compared With Traditional Gear MHSRS-106 A National Survey of Call-Shift Fatigue Experiences in Certified Registered Nurse Anesthetists MHSRS-235 Effects of U.S. Navy diver training on physiological parameters, time of useful consciousness, and cognitive performance during periods of normobaric hypoxia MHSRS-384 AMES enhances movement performance in both impaired and able-bodied adults MHSRS-544 An Evidence-Based Wellness and Safety Program Enhances the Performance Triad. MHSRS-701 Integrated operational tools to monitor for warfighter fatigue MHSRS-765 Sleep deprivation decreases Fear Conditioned Skin Conductance Levels MHSRS-1026 The SHIELD (Safety & Health Improvement: Enhancing Law Enforcement Departments) Study: A New Health Enhancement Model For Active and Retired Military Personnel MHSRS-1064 The Effects of Distraction, Restraints, Training, and Seat Location on Vehicle Egress Time	Moderators Rodger VanderBeek, MD and Valerie Trabosh, PhD
		Trauma Care - Extremity Trauma & Limb Regenerative Research MHSRS-182 Near-Infrared Spectroscopy in the Sub-Acute Setting of Lower Extremity Trauma MHSRS-344 Contaminated Open Fracture Wounds are Hypovascular but Hyperperfused MHSRS-436 Effect of Grafting Materials on Bone Healing in a Chronic Caprine Tibial Defect Model MHSRS-453 The Military Orthopaedic Trauma Registry: Quality Data Now Available MHSRS-877 LOCAL INFLAMMATORY RESPONSE MAY BE AFFECTED BY DISTANT TRAUMA IN COMBAT-RELATED EXTREMITY WOUNDS	Moderators COL Romney Andersen, USA and Joseph Wenke, PhD

		<p>MHSRS-962 The lessons of war: Turning medical data into clinical decisions.</p> <p>MHSRS-1024 Factors influencing infection in 10-years of combat open tibia fractures</p> <p>MHSRS-1200 Translational Autologous Approaches for Regeneration of Skeletal Muscle</p>	
		<p>Graduate Medical Education</p> <p>American College of Surgeons Committee on Trauma Region 13 Resident Presentations</p>	<p>Moderator Col Jeff Bailey, USAF</p>
		<p>Trauma Care - Prehospital & Tactical Combat Casualty Care</p>	<p>Moderators LTC Robert Mabry, USA and Sylvain Cardin, PhD</p>
		<p>MHSRS-557 Rapid sequence induction of anaesthesia via the intraosseous route: a prospective observational study</p>	Barnard
		<p>MHSRS-399 Evaluation of Junctional Tourniquets in a Care Under Fire Exercise: Feedback Regarding Application and Practical Use</p>	Shackelford
		<p>MHSRS-218 Evaluation of hydroxocobalamin compared to Hextend® for resuscitation of type III hemorrhage in a swine model</p>	Bebarta
		<p>MHSRS-1157 Prospective Study of Ketamine During Tacevac</p>	Rush
		<p>MHSRS-842 Feedback to the Field: Linking Postmortem Observations to Tactical Combat Casualty Care</p>	Mazuchowski
		<p>MHSRS-240 Role I trauma experience of the Israeli Defense Force on the Syrian Border</p>	Glassberg
		<p>MHSRS-913 Battlefield Trauma Care Documentation at the Point of Injury</p>	Gross
		<p>MHSRS-75 Implementation of a Joint Trauma System Pre-hospital Trauma Registry in Afghanistan: Cracking the Code on Data Capture for Tactical Combat Casualty Care</p>	Geracci
		<p>MHSRS-358 Identifying DOTmLPP-P Challenges in Operation ENDURING FREEDOM to Assure High Quality and Predictable Combat Capability in the Delivery of Pre-Hospital and Tactical Combat Casualty Care – Examples from the Afghanistan Campaign.</p>	Sauer
1500-1530		Break	Break
1530-1730		Breakout Sessions	Breakout Sessions
		<p>Human Performance & Occupational Health Environmental/Occupational Health Hazards</p> <p>MHSRS-44 Neutrophils Generate Microparticles Following Exposure to Inert Gases Due to Cytoskeletal Oxidative Stress</p> <p>MHSRS-184 Novel Biomarkers for the Determination of Heat Stroke Severity</p> <p>MHSRS-202 A new rapid field assessment of heat stroke severity using cTnl point-of-care test strips</p> <p>MHSRS-295 Alteration in Circulating Metabolites During and After Heat Stress in the Conscious Rat: Potential Biomarkers of Exposure and Organ-Specific Injury</p> <p>MHSRS-467 A mobile application for prediction of acute mountain sickness, work performance, and altitude acclimatization</p>	<p>Moderator David Jackson, PhD</p>

		<p>MHSRS-517 HEAT STROKE, RETURN TO DUTY STATUS, AND THE IMPACT OF HEAT TOLERANCE TESTING</p> <p>MHSRS-917 Establishment of a model for investigating the impact of combined environmental and psychological stressors.</p> <p>MHSRS-1059 Chronic CO2 retention induces gastroesophageal lesions in rats</p>	
		<p>Trauma Care - Craniofacial Trauma & Face Regenerative Research</p> <p>MHSRS-205 LOCALIZED LOW DOSE rhBMP-2 IS EFFECTIVE AT PROMOTING BONE REGENERATION IN A PRE- CLINICAL MANDIBULAR SEGMENTAL DEFECT MODEL</p> <p>MHSRS-373 Repair of Rat Calvarial Critical Size Defects with Endothelial and Osteocyte Differentiated Adipose-derived Stem Cells</p> <p>MHSRS-491 Collagen-based Biomask as a Promising Skin Graft for Facial Burn</p> <p>MHSRS-578 Face Transplantation In A Highly Sensitized Recipient</p> <p>MHSRS-704 Adipose stem cells are able to substitute for fibroblasts and support keratinocyte proliferation and survival on a collagen matrix</p> <p>MHSRS-718 Structural Fat Grafting for Craniofacial Trauma: A Project of the Biomedical Translational Initiative</p> <p>MHSRS-727 Subdermally applied drug eluting micro-particles delay acute rejection Within Vascularized Composite Allotransplant grafts</p> <p>MHSRS-752 Subtotal nasal reconstruction: A case highlighting military and civilian collaboration to achieve an optimal restorative outcome.</p> <p>MHSRS-862 The Evolution of Structural Fat Grafting and Potential Military Applications</p> <p>MHSRS-1197 Use of Mercury in Dental Applications</p>	<p>Moderators Lt Col Michael Davis, USAF and Brian Pfister, PhD</p>
		<p>Graduate Medical Education</p> <p>Are the King's Clothes Tattered? The Value Graduate Medical Education Research</p>	<p>Moderators Woodson Scott Jones, MD and CAPT Eric Elster, USN</p>
		<p>Military GME Research: The Opportunities</p>	<p>Kellerman</p>
		<p>Research and GME: Challenges/Accreditation</p>	<p>Jones</p>
		<p>Ingredients for Successful GME Research</p>	<p>Elster</p>
		<p>Intentional Mentorship of Research Faculty</p>	<p>Murray</p>
		<p>The Next Generation: Resident Research Success Stories</p>	<p>Borgman and Forsberg</p>
		<p>Panel discussion</p>	<p>Rice, Kellermann and Speakers</p>

		<p align="center">Trauma Care - Burn & Intensive Care</p> <p>MHSRS-68 A Multicenter, Randomized Clinical Trial of Intravenous Iron Supplementation for Anemia of Traumatic Critical Illness</p> <p>MHSRS-713 Determinants of Mortality in Combined Burn/Trauma Injuries: Size Makes a Difference</p> <p>MHSRS-728 Pulmonary Emboli and Deep Vein Thromboses: Are They Always a Part of the Same Disease Spectrum?</p> <p>MHSRS-795 Determination of the Optimal Delirium Screening Tool for Burn Intensive Care Unit Patients</p> <p>MHSRS-817 Full-Thickness Burn Size: More Important Than Total Burn Size in Determining Fluid Needs during Burn Resuscitation?</p> <p>MHSRS-970 Does Creatinine Kinase Predict Renal Failure in Combat Casualties</p> <p>MHSRS-1025 Prospective Multicenter Randomized Skin Graft Cover Dressing Clinical Trial</p> <p>MHSRS-1037 Burn Intensive Care Unit Multidisciplinary Approach Facilitates Adult Extracorporeal Life Support Therapy</p> <p>MHSRS-1107 The Center for Devices and Radiological Health (CDRH) Autonomous Critical Care (ACC) Medical Countermeasures (EMCM) Initiative: Leveraging Regulatory Science to Enable the Advancement & Integration of Critical Care Technologies</p>	<p align="center">Moderators Col Jeremy Cannon, USAF and Jose Salinas, PhD</p>
1800-2000		<p align="center">By Invitation Only</p> <p>Combat Casualty Care Research Program Integrating Integrated Product</p>	<p align="center">Moderator Col Todd Rasmussen, USAF</p>
1800-2100		<p align="center">Open Special Evening Session</p> <p>Technology Enabled Capabilities Demonstration; Brain in Combat & Environmental Sensors in Training Macro Study Issues and Discussion</p>	<p align="center">Moderators MAJ Elaine Paszkowski, USA LTC Chesley Atchison, USA</p>
Thursday, 21 Aug			
0800-0830		Awards Ceremony	Col Hack
830		Administrative Remarks	Moderator
0830-0855		Keynote Presentation (Title)	CAPT Carmen T. Maher, USPHS Deputy Director, Office of Counter Terrorism and Emerging Threats Food and Drug Administration
0855-0910		<p>Infectious Disease & Complications Plenary Infectious Disease Research & Development</p> <p align="center">Competitive Abstract MHSRS-100 The ARMoR Program: DoD's Response to Escalating Antimicrobial Resistance</p>	<p align="center">COL Emil P. Lesho, USA Walter Reed Army Institute of Research Forest Glen, MD</p>
0910-0925		<p>Infectious Disease & Complications Plenary Wounds/Skin/Soft Tissue Infections</p> <p align="center">Competitive Abstract MHSRS-1081 A Handheld Fluorescence Imaging Device for Assessment of Chronic Wound Infections: Pilot Clinical Results</p>	<p align="center">Catherine Theodoropoulos, PhD MolecuLight Inc. Toronto, Canada</p>
0925-0940		<p>Human Performance & Operational Health Plenary Injury Prevention - Sensory & Musculoskeletal Injuries</p> <p align="center">Competitive Abstract MHSRS-69 Impulse Noise Injury Model</p>	<p align="center">Philemon Chan, PhD L-3 Communications San Diego, CA</p>
0940-1000		Break	Break
1000-1200		Breakout Sessions	Breakout Sessions

		<p align="center">Human Performance & Occupational Health Injury Prevention - Sensory & Musculoskeletal Injuries</p> <p>MHSRS-83 An interim LAeq8 criterion for impulse noise injury</p> <p>MHSRS-216 Dynamic Response Index is not a suitable predictor of spinal injury risk in underbelly blast</p> <p>MHSRS-228 Biomechanics-based predictions of recruit injury and performance outcomes during US Army Basic Combat Training</p> <p>MHSRS-396 COMPARISON OF INJURY INCIDENCE BETWEEN THE T-11 ADVANCED TACTICAL PARACHUTE SYSTEM AND THE T-10 PARACHUTE</p> <p>MHSRS-620 Non-Invasive Detection of Musculoskeletal Injuries: Use of Raman and Diffuse Reflectance Spectroscopy in Mice.</p> <p>MHSRS-801 Advanced Hearing Protection Requirements</p> <p>MHSRS-1034 Blast Wave Pressure Dynamics at the Cornea as a Function of Eye Protection</p> <p>MHSRS-1152 Hierarchical Development of Biomedically Validated Human Computational Models for Injury Prediction</p>	<p align="center">Moderator Richard Shoge, PhD</p>
		<p align="center">Neurotrauma/Traumatic Brain Injury Session TBD</p> <p>MHSRS-99 Impairment of Olfactory Performance in Combat Troops Diagnosed with Traumatic Brain Injury: Prospective Controlled Study</p> <p>MHSRS-110 Postural Sway Metrics after Concussion; Implications for Balance Testing</p> <p>MHSRS-135 Evaluation of an Operational Return-to-Duty Assessment Program: Preliminary Assessment of the Construct Validity using an Archived Database of Clinical Data</p> <p>MHSRS-220 The Natural History of Acute Recovery of Blast-induced Mild Traumatic Brain Injury: A Case Series During War</p> <p>MHSRS-232 Predictors of Mental Health Outcomes of Mild Traumatic Brain Injury: Concussion Clinics in Afghanistan</p> <p>MHSRS-355 Can "return to play" be predicted from brain electrical activity at time of concussive injury in athletes?</p> <p>MHSRS-528 MULTICENTER COMPARISON OF FIVE THERAPIES REVEALS THERAPEUTIC POTENTIAL FOR LEVETIRACETAM: STUDIES FROM OPERATION BRAIN TRAUMA THERAPY</p> <p>MHSRS-575 Multiple Past Concussions Are Associated with Ongoing Symptoms but not Cognitive Impairment in Active Duty Army Soldiers</p> <p>MHSRS-584 The Effects of Combat-related Mild Traumatic Brain Injury: Does Blast mTBI History Matter?</p> <p>MHSRS-615 Histopathological changes and cognitive deficits following closed-head concussive injury in rats</p> <p>MHSRS-679 Chronic Post Concussive Symptoms in Soldiers Returning from Service in Iraq or Afghanistan and at 3 Months Follow-Up: A Prospective Cohort Study</p>	<p align="center">Moderators Kenneth Curley, MD and Crystal Hill-Prior, PhD</p>

		<p>MHSRS-714 Is Simple Reaction Time the Best Indicator of White Matter Disruption in Service Members with Invisible Wounds of War?</p> <p>MHSRS-743 Evaluating the effectiveness of (early) psycho-educational intervention for military personnel with mild traumatic brain injury: A cohort study.</p> <p>MHSRS-853 Visualizing "Invisible Wounds" and Developing Therapeutic Approaches for Blast-wave-induced Mild TBI</p> <p>MHSRS-859 The Isobolic Approach to Combination Drug Therapy Development for Traumatic Brain Injury</p> <p>MHSRS-867 THE BRAIN INJURY GUIDELINES:A PROSPECTIVE ANALYSIS</p> <p>MHSRS-885 In vivo Two-photon Imaging Revealed Abnormal Cerebral Microcirculation Following Mild Traumatic Brain Injury</p> <p>MHSRS-944 TEAM TBI: Diagnosis of White Matter Damage with High Definition Fiber Tracking in Patients with Chronic TBI</p> <p>MHSRS-956 Differences in symptom severity in mTBI patients with and without PTSD</p> <p>MHSRS-1004 Neuroradiology Findings in a Cohort of Military Service Members with Traumatic Brain Injury</p>	
		<p>Infectious Disease & Complications Wounds/Skin/Soft Tissue Infections</p> <p>MHSRS-107 CHD-FA is a highly effective topical broad-spectrum antimicrobial for drug-resistant wound infections</p> <p>MHSRS-328 Impact of the Nasal Microbiome on the Development of Staphylococcal Skin and Soft-Tissue Infections at Fort Benning</p> <p>MHSRS-335 Mathematical Models Can Identify Biomarkers and Mechanisms of Chronic Wound Inflammation</p> <p>MHSRS-533 Epidemiology of Skin and Soft-Tissue Infections in Trainees at Fort Benning</p> <p>MHSRS-536 Monoclonal antibody made against the Type Six Secretion System of Acinetobacter baumannii can protect from infection and be used as a diagnostic</p> <p>MHSRS-570 Lessons of War: Combat-related Injury Infections during the Vietnam War and Operation Iraqi and Enduring Freedom (OIF/OEF)</p> <p>MHSRS-581 Infection reduction observed in first-in-man use of a novel blood plasma-based biomaterial treatment for open tibia fractures</p> <p>MHSRS-630 Risk factors for infection in combat casualties from Iraq and Afghanistan</p> <p>MHSRS-641 Early Complications and Outcomes in Combat Injury Related Invasive Fungal Wound Infections: A Case-Control Analysis</p> <p>MHSRS-700 Tranexamic Acid Administration and Infection Risk in Combat Casualties</p>	<p>Moderator LTC Wendy-Sammons-Jackson, USA</p>

		MHSRS-918 Evaluation of a Bioelectric Dressing as the Next Generation Wound Care Product	
		Training & Skills Sustainment Military-Civilian Training & Sustainment Platforms	Moderators Col Raymond Fang, USAF and CAPT Eric Elster, USN
1200-1300		Lunch	Lunch
1200-1300		Lunchtime Breakout Session Trauma, Infection, Disease Outcomes Studies	Moderator LTC Wendy Sammons-Jackson, USA
1300-1500		Breakout Sessions	Breakout Sessions
		Psychological Health & Rehabilitation & Recovery Psychological Health - Suicide MHSRS-93 Improving the detection and prediction of suicidal behavior among military personnel by measuring suicidal beliefs: an evaluation of the Suicide Cognitions Scale MHSRS-196 A Virtual Hope Box Smartphone App as an Accessory to Therapy: Proof of Concept in a Clinical Sample of Veterans MHSRS-519 Optimizing Screening and Risk Assessment for Suicide Risk in the U.S. Military MHSRS-871 Management of Suicide-Related Events during Deployment MHSRS-978 Post Admission Cognitive Therapy (PACT) for the Inpatient Treatment of Military Personnel with Suicide-Related Ideation and Behavior	Moderator Kate Nassauer, PhD
		Neurotrauma/Traumatic Brain Injury	Moderators Kenneth Curley, MD and CDR Rene Hernandez, USN
		Infectious Disease & Complications Infectious Disease Research & Diagnostics MHSRS-413 Combating Staphylococcal Skin and Soft-Tissue Infections in Trainees at Fort Benning MHSRS-487Dramatic Decline of Respiratory Illness Among US Military Recruits After the Renewed Use of Adenovirus Vaccines MHSRS-634 Environmental factors associated with the presence of mold: potential risk factors for combat-trauma related invasive fungal wound infections MHSRS-865 Lateral Flow Rapid Test for Diagnosis of Scrub Typhus – A Febrile Illness of Historical Military Importance In The Pacific Rim MHSRS-916 Changing the Way the DoD Performs Pathogen Surveillance: The Results of the Analysis of MERS-CoV in the Military Population MHSRS-931 Intra-operative dip-coating of orthopedic hardware prevents biofilm formation and supports fracture healing in a large animal model. MHSRS-1046 Unit Practice Council Successful Efforts for Implementing Use of Alcohol Port Protectors	Moderator CDR Gail Chapman, USN
		Pain Management - Acute & Chronic Pain Management	Moderators Marcie Fowler, PhD and Tony Gover, PhD

	<p>MHSRS-133 Treatment of Post-traumatic Neuropathic Pain and Complex Regional Pain Syndrome I (CRPS-I) by Decreasing Neuroinflammation via Modulation of the Glial Cannabinoid Type 2 (CB2) Receptor with a Novel Compound (MDA7)</p> <p>MHSRS-290 Traumatic brain injury modulates key neurochemicals with reciprocal interactions in the pain pathway</p> <p>MHSRS-424 Prehospital Pain Medication Use by U.S. Forces in Afghanistan</p> <p>MHSRS-506 Opioid-sparing therapeutic regiment for traumatic and neuropathic pain.</p> <p>MHSRS-638 EFFECT OF THE NOCICEPTIN/ORPHANIN FQ PEPTIDE RECEPTOR ANTAGONIST JTC-801 ON CYTOKINE EXPRESSION, PAIN AND ANXIETY FOLLOWING EXPOSURE TO THE SINGLE PROLONGED STRESS MODEL OF PTSD</p> <p>MHSRS-690 Pharmacological studies of NOP-related agonists as novel analgesics in nonhuman primates</p> <p>MHSRS-1042 Antinociceptive Effects of $\alpha 9\alpha 10$ Nicotinic Acetylcholine Receptor ($\alpha 9\alpha 10$ nAChR) Antagonists in a Thermal Injury-induced Full-thickness Rat Pain Model</p> <p>MHSRS-1102 Preemptive bupivacaine treatment blocks long-term allodynic responses in a rat spinal nerve ligation model for neuropathic pain</p>	
1500	MHSRS 2014 Ends	MHSRS 2014 Ends
Friday, 22 August		
0800-1630	By Invitation Only The Technical Cooperation Panel-12/North American Treaty Organization	Moderator Michael Dubick, PhD