

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
Sunday 17 Aug				
0900-1615		Air Force Medical Service Breakout 0900-1200 - AFMS Business Meeting 1330-1615 - Scientific Presentations	Air Force Medical Service Breakout	Ocean 2/4
Monday 18 Aug				
0800-0815		Welcome & Administrative Remarks	Moderators Terry Rauch, PhD and COL Dallas Hack, USA	Ocean Ballroom
0815-0841		Keynote Presentation Advancing the Practice of Military Medicine	Dr. David J. Smith Deputy Assistant Secretary of Defense for Force Health Protection and Readiness	
0841-0907		Military Health System: RDA Transformation	Lt Gen Douglas J. Robb, USAF Director Defense Health Agency	
0907-0933		The DHA Research, Development, and Acquisitions Directorate: Update on Activities and Path Forward	Rear Admiral Bruce A. Doll, USN Director, Research, Development & Acquisition Defense Health Agency	
0933-1000		"Skating To Where the Puck Will Be"	Vice Admiral Matthew T. Nathan Surgeon General of the Navy	
1005-1030		Break	Break	
1030-1200		Joint Trauma System Presentation & Panel Discussion	Moderator COL Kirby Gross, USA	Ocean Ballroom
	1030-1040	Clinical Questions to Clinical Guidance: The Military's Continuously Learning System in Trauma	Rasmussen	
	1040-1110	Products and Functional Means by Which JTS-JTTS Impact Combat Casualty Care Outcomes	Gross	
	1110-1200	Panel Discussion	Bailey, Gross, Stockinger, Butler, Geracci, Mabry, Nohrenberg, Spott, Shireman, Rice, Glassberg	
1200-1300		Lunch	Lunch	
1300-1500		Breakout Sessions	Breakout Sessions	
		Training & Skills Sustainment Combat Casualty Simulation & Training	Moderator Janet Harris, PhD	Ocean 1
	1300-1315	Overview of the Combat Casualty Training Initiative Strategic Plan	Harris	
	1315-1330	Difficult Airway Management for Novice Physicians: A Randomized Trial Comparing Direct and Video-Assisted Laryngoscopy	Ambrosio	
	1330-1345	Recognition and Treatment of Nerve Agent Casualties: Evidence of Reduced Learner Engagement During Video Based Training	Bukoski	
	1345-1400	Just in Time Learning is Effective in Helping First Responders Manage Weapons of Mass Destruction Events	Motola and Burns	
	1400-1415	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	
	1415-1430	A Comparison of Two Medical Training Modalities for CAF Medical Technicians: Live Tissue Training and High Fidelity Patient Simulator	Savage	
	1430-1445	Bridging Combat Casualty Burn Care Education with High Fidelity Human Patient Simulation	Hayes	
	1445-1500	Event Driven Surgical Gesture Recognition: Test and Performance Comparison	De Novi	
		Trauma Care - Enroute Care	Moderators Lt Col Jennifer Hatzfeld, USAF and Lt Col Vikhyat Bebarta, USAF	Ocean 2

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1300-1315	Prehospital Blood Transfusions During Aeromedical Evacuations of Trauma Patients in Israel	Chen	
	1315-1330	Flow Cytometry Analysis of Myeloid Cells After Crush Injury and Simulated Flight	Schneider	
	1330-1345	Utility of Vital Signs, Heart-Rate Variability and Complexity, and Machine Learning for Identifying the Need for Life-Saving Interventions in Trauma Patients	Liu	
	1345-1400	Predicting Blood Transfusion Using Automated Analysis of Pulse Oximetry Waveforms and Lab Values	Shackleford	
	1400-1415	Can an Intelligent Alerting System Identify Patients with Substantial Bleeding during Transport to a Trauma Center?	Reisner	
	1415-1430	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)	Ervin	
	1430-1445	Biological Effects of Vibration Simulating Helicopter Transport on Spinal Cord Injured Pigs	Cripton	
	1445-1500	Pressure Ulcer Development in Critical Care Air Transport Team Patients: A Case-Control Study	Dukes	
		Trauma Care - Blood/Blood Products	Moderator Heather Pidcoke, MD, PhD	
	1300-1312	Thrombus Formation and Platelet Adhesion: A Quantitative System to Evaluate Platelet Function in vivo	Torres Filho	
	1312-1324	Platelets Modulate Vascular Stability in Trauma and Hemorrhage: Assessing the Donor Variability and the Storage Lesion of Platelets	Pati	
	1324-1336	Magnesium Sulfate Supplementation Promotes the Response of Cold Stored Platelets to Aggregation and Coagulation Stimuli Over Eight Days	Meledeo	
	1336-1348	4°C Platelet Storage Reduces Reactive Oxygen Species, Preserves Mitochondrial Function, and Reduces Fibrinolysis	Bynum	
	1348-1400	Syndecan-1 Mediated Gut Protection by Fresh Frozen and Lyophilized Plasma After Hemorrhagic Shock	Kozar	
	1400-1412	A Freeze Dried Plasma Alternative to Fresh Frozen Plasma with Improved Handling to Enable Point-of-Injury Care	Pareta	
	1412-1424	UPDATE - Clinical Development of a Spray Dried Solvent Detergent Treated Plasma	Galiger	
	1424-1436	Whole Blood Treated with Riboflavin and UV Light: Inactivation of Malaria Parasite and Blood Conservation at 4°C	Goodrich	
	1436-1448	Blood Product Resuscitation Is Not Hemostatic In Trauma Patients Undergoing Surgical Debridement	Pidcoke	
	1448-1500	The Evolution of Pediatric Combat Transfusion Practice	Cannon	
		Psychological Health & Rehabilitation & Recovery Sensory Issues - Vision, Hearing & Balance	Moderators CAPT Michael Hoffer, USN, Lynn Henselman, PhD, and LTC James Crawford, USA	Ocean 4
	1300-1303	Introduction	Hoffer, Henselman, and Crawford	
	1303-1316	A New ANSW2R to the Problem of Neurosensory Polytrauma	Hoffer	
	1316-1329	Restoration of Sight with Photovoltaic Sub-Retinal Prosthesis	Palanker	
	1329-1342	Warfighter Performance and Hearing Preservation: Achieving the Synergy	Yankaskas	
	1342-1355	Evaluation of Aurally-Aided Visual Search Performance for Individuals Maneuvering on Foot	Brungart	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1355-1408	Military Medical Research Intelligence: Requirements and Solutions	Packer	
	1408-1421	Evaluation and Treatment of Single Sided Deafness	Boudin	
	1421-1434	Update on Vestibular Evaluation and Treatment	Esquivel	
	1434-1447	Tinnitus Re-Organization Training: Combining Modulated Music with Transcutaneous Vagal Nerve Stimulation to Alleviate Combat-Related Tinnitus	Lewine	
	1447-1500	Translational Research: From the Bench to the Battlefield	Balaban	
1500-1530		Break	Break	
1530-1730		Breakout Sessions	Breakout Sessions	
		Bioinformatics - Supporting Warrior Care	Moderators Francis McVeigh, OD and Lori Loan, PhD	Ocean 1
	1530-1536	Introduction	McVeigh and Loan	
	1536-1555	The Impact of a Mobile Messaging System on Case Management Assessment, Contact Rate Requirements and Appointment Reminder Support	Pavliscsak	
	1555-1614	A Concept Recognition Tool to Identify the Surgical Complications of Crohn's Disease in Electronic Health Records	Dunn	
	1614-1633	Improving Human Computer Interaction in Electronic Medical Records through Design and Data Visualization	Kang	
	1633-1652	Developing a Cognitive and Communications Tool for Burn ICU Clinicians	Nemeth	
	1652-1711	A Large-scale mTBI Informatics Database: Fostering Innovation, Research, and Development for mTBI/PTSD	Caban	
	1711-1730	COPTADS: Clinical Online PTSD and TBI Analysis and Detection System	Kagan	
		Trauma Care - Hemorrhage Control & Resuscitation	Moderators Michael Dubick, PhD and CAPT Zsolt Stockinger, USN	
	1530-1531	Introduction	Dubick and Stockinger	
	1531-1548	Junctional Hemorrhage Control: Update on Out-of-Hospital Interventions	Kragh	
	1548-1605	Pre-hospital Use Of Hemostatic Bandages By The Israeli Defense Force Medical Corps. A Report Of 31 Cases.	Glassberg	
	1605-1622	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	Manning	
	1622-1639	FFP and SDP Mitigate the Endotheliopathy of Hemorrhagic Shock (HS) and Trauma Associated Acute Lung Injury (ALI)	Pati	
	1639-1656	A Controlled Resuscitation Strategy is Feasible and Safe in Hypotensive Trauma Patients: Results of a Prospective Randomized Pilot Trial	Schreiber	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1656-1713	Pre-Hospital Blood Products After Battlefield Trauma: Benefit Unclear	Smith	
	1713-1730	Does TXA Matter? Refining Indications for its Use in the Combat Trauma Population	Stockinger	
		Psychological Health & Rehabilitation & Recovery Psychological Health - Post Traumatic Stress Disorder in Primary Care Settings	Moderator Ronald Hoover, PhD	Ocean 3
	1530-1600	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	Engel	
	1600-1630	Neuropsychiatric Diagnoses Associated with Genitourinary Injury in Male Veterans of OEF/OIF Receiving Care at Veterans Administration Health Care Facilities	Orman	
	1630-1700	Impact of Posttraumatic Stress Disorder and Inflammation on Somatic Symptoms: A Cross-Sectional Analysis of Combat-Exposed Service Members	Burson	
	1700-1730	Virtual-Reality Exposure Therapy for Combat-Related PTSD: Examination of Perceived Contraindications and Iatrogenic Effect Trajectories	Beidel	
		Psychological Health & Rehabilitation & Recovery Prosthetics & Rehabilitation	Moderators CAPT Lanny Boswell, USN and Ms. Katherine Stout, DPT, MBA	Ocean 4
	1530-1535	Introduction	Boswell and Stout	
	1535-1558	Monitoring Energy Expenditure in Amputees: A Prosthetic-Integrated Wearable Sensor System	Krepkovich	
	1558-1621	A Bionic Ankle Prosthesis, Odyssey, Restores Powered Push-Off During Walking and Running for Transtibial Amputees	Ward	
	1621-1644	Towards Clinically Viable Neural Control of Powered Lower-Limb Prostheses	Fey	
	1644-1707	Using Multiple High-Count Electrode Arrays in Residual Arm Nerves to Restore Sensorimotor Function After Hand Amputation	Clark	
	1707-1730	Blood Flow Restricted Training as a Rehabilitation Modality: A Case Series	Hayden	
1900-2100		Assistant Secretary of Defense (Health Affairs) Reception	Assistant Secretary of Defense (Health Affairs) Reception	Grand Ballroom
Tuesday 19 Aug				
0800-0805		Administrative Remarks	Moderator Col Todd Rasmussen, USAF	Ocean Ballroom
0805-0830		Keynote Presentation Sustaining Innovation and Excellence in Military Medicine--The Challenge of Contingency	Brigadier Timothy J. Hodgetts, CBE, PhD, MEd, MBA Medical Director, Joint Medical Command	
0830-0845		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		Hypoxemia During Aeromedical Evaluation of the Walking Wounded	Col Jay Johannigman, USAFR, MD University of Cincinnati Cincinnati, OH	
0900-0915		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		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	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
0930-1000		Break	Break	
1000-1200		Young Investigator Competition	Moderator David Baer, PhD	Ocean Ballroom
	1000-1010	Competitive Abstract MHSRS-761 Emerging Role of Blood Biomarkers in TBI Clinical Trials: Initial Findings from the Phase II INTREPID2566 Trial	Mondello	
	1010-1020	Competitive Abstract MHSRS-828 Evaluation of High-Dose Hydroxocobalamin and Ascorbic Acid as an Injectable Antidote for Carbon Monoxide Poisoning	Roderique	
	1020-1030	Competitive Abstract MHSRS-775 Moderate and Severe Brain Injury Among Combat Casualties: Secondary Insult Analysis	Keen	
	1030-1040	Competitive Abstract MHSRS-402 Effectiveness of an Injury Prevention Warm-Up for Unit Physical Training	Shumway	
	1040-1050	Competitive Abstract MHSRS-900 Nebulized Epinephrine Limits Pulmonary Vascular Hyperpermeability to Water and Proteins in Ovine Burn and Smoke Inhalation Injury	Lopez	
	1050-1100	Competitive Abstract MHSRS-1012 Improved Clot Strength of Refrigerated Platelets for Transfusion	Nair	
	1100-1110	Competitive Abstract MHSRS-340 Can We Predict How Sleep Loss Impairs Human Performance?	Ramakrishnan	
	1110-1120	Competitive Abstract MHSRS-422 In-Theater mTBI Screening: Normative Versus Baseline ANAM4 Data	Haran	
	1120-1130	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 ISS, Revised Trauma Score	Mossadegh	
	1130-1140	Competitive Abstract MHSRS 351 The Adrenal Response to Injury in Mauritian Cynomolgus Macaques : A Comparison Between Isolated Hemorrhage and Polytrauma Models	Nelson	
	1140-1150	Competitive Abstract MHSRS-963 Porcine Large Total Body Surface Area (TBSA) Contact Burn for Investigating Immunomodulators to Reduce Systemic Inflammatory Response Syndrome (SIRS)	Burmeister	
	1150-1200	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	Petteys	
1200-1300		Lunch	Lunch	
1215-1400		Lunchtime Breakout Session Hyperbaric Oxygen Therapy (HBO2) for mild Traumatic Brain Injury (mTBI) DoD Research Project	Moderator CDR Rene Hernandez, USN	Ocean 2/4
	1215-1220	Introduction	Chhoeu	
	1220-1235	Overview of DoD's HBO2 Program: Results of USAF and Navy/VCU Studies	Weaver	
	1235-1250	Pilot Study: Hyperbaric Oxygen for Persistent Post-Concussive Syndrome after mTBI	Miller	
	1250-1305	Day to Day Operations of the HBO2 studies: Lessons Learned and Path Forward	Price	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1305-1320	Current and Future DoD HBO2 studies	Weaver	
	1320-1400	Panel Discussion and Posters	All Speakers	
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	Ocean 1
	1530-1538	Overview of the Medical Practice Initiative Strategic Plan	Kunkler	
	1538-1554	Effectiveness of Hemodynamics Simulator in Teaching Notice Trainees the Treatment of Shock	Laufer	
	1554-1610	Training and Retention Outcomes from Two Forms of Pediatric and Neonatal Intubation Training	Dooley-Hash	
	1610-1626	Can Performance be Predicted Early On?	Kang	
	1626-1642	Alternative Approach to Establish Inter-Rater Concordance	Baez	
	1642-1658	Preparing Surgeons for Modern Combat Trauma Care: Experience with the Advanced Surgical Skills for Exposure in Trauma (ASSET) Course for Pre-deployment Training	Bowyer	
	1658-1714	Development of a Trauma Readiness Metric Score for Surgeons	Mackenzie	
	1714-1730	Retention and Retraining of Integrated Cognitive and Psychomotor Surgical Skills	Skinner	
		Psychological Health & Rehabilitation & Recovery Psychological Health - Resilience	Moderators LTC Dennis McGurk and Michael C. Freed, PhD	Ocean 2
	1530-1535	Introduction	McGurk & Freed	
	1535-1558	Comprehensive Soldier and Family Fitness (CSF2) Program Evaluation Initiatives	Nannini	
	1558-1621	Annual Fitness Test Performance and Mental Health Outcomes in US Marines	Bartlett	
	1621-1644	Attracting Substance Abusing Soldiers to Voluntarily Take Stock of Their Use: Preliminary Outcomes From the Warrior Check-Up MET Intervention	Walker	
	1644-1707	Post-Deployment Issues of National Guard: A Comparative Case Study of How Access to VA Benefits Affect Reintegration with Family and Civilian Employment	Gorman	
	1707-1730	Discussant Comment & Discussion	McGurk & Freed	
	Physiological Monitoring	Moderators Victor Convertino, PhD and Jaques Reifman, PhD	Ocean 3	
1530-1550	Can Prehospital Vital Signs Help Identify Traumatic Brain Injury?	Reisner		
1550-1610	Utility of a Near-Infrared Reflectance Spectroscopy Oximeter in Shock	Wood		

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1610-1630	Cardiac Output Monitoring Managing Intravenous Therapy (COMMIT) to Resuscitate Emergency Department Severe Sepsis	Shapiro	
	1630-1650	Wearable Sensing and Machine Learning for Human Physical Activity Assessment	Liu	
	1650-1710	Characterization of the Changes in Compensatory Reserve Index During Major Bleeding in Porcine Model	Glassberg	
	1710-1730	Laser Speckle-Based Microvascular Blood Flow Monitoring for Critical Care	Ostraverkhov	
1530-1800		Expeditionary & Sea Based Care & Global Disaster Response	Moderators Wayman Cheatham, MD and Col(s) Elon Glassberg, IDF	Ocean 4
	1530-1535	Introduction	Cheatham and Glassberg	
	1535-1600	Operations Unified Response and Pacific Partnership - Lessons Identified and Needed Capabilities	Johnson	
	1600-1625	Experience and Lessons Learned During Israeli Defense Force Humanitarian Medical Missions	Glassberg	
	1625-1640	Extending a Helping Hand Over a Hostile Border –Unique Ethical Dilemmas Involving the Humanitarian Aid Mission to the Victims of the Syrian Civil War	Nadler	
	1640-1656	Differential Impact of General and Deployment-Specific Stressors on Marines' Mental Health Outcomes	McWhorter	
	1656-1712	Ratio Driven Resuscitation Predicts Early Fascial closure in The Combat Wounded	Glaser	
	1712-1728	Exploratory Laparotomy for Proximal Vascular Control Is Associated With Significant Morbidity In Combat Trauma	Glaser	
	1728-1744	Medical Evacuations from the United States Navy Submarine Fleet: January 2012 through December 2013	Welsh	
	1744-1800	The Potential of Portable Oxygen Concentrators to Provide Oxygen for Remote Diving Casualties	Fothergill	
1800-2000		Poster Session 2	Poster Session 2	
1900-2100		U.S. Navy/Marine Corps Service Breakout	U.S. Navy/Marine Corps Service Breakout	Ocean 2
Wednesday 20 Aug				
0800-0805		Administrative Remarks	Moderator Woodson Scott Jones, MD	Ocean Ballroom
0805-0830		Keynote Presentation "That's a crazy idea...."	Charles L. Rice, MD President, Uniformed Services University of the Health Sciences	
0830-0845		Safe, Effective, and Secure Medical Products - New Ways of Collaborating with the Food and Drug Administration	Suzanne Schwartz, MD MBA Director Emergency Preparedness/Operations and Medical Countermeasures, Office of the Center Director, Center for Devices and Radiological Health Food and Drug Administration	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
0845-0900		Improved survival in UK combat casualties from Iraq and Afghanistan: 2003-2012'	Surgeon Lieutenant Commander Jowan G Penn-Barwell Royal Navy	
0900-0915		Fall Prevention Training for Warfighters w/Lower Extremity Amputations	Kenton R. Kaufman, PhD, PE Mayo Clinic Rochester, MN	
0915-0930		Tactical CCC Guidelines Recommending Hetastarch Use at POI Do Not Require Revision	COL Kirby R Gross, USA, MD Joint Trauma System San Antonio, TX	
0930-0945		The Power of Mobile: Enabling the Medical War Fighter Today and in the Future	COL Daniel R. Kral, USA, MS Telemedicine and Advanced Technology Research Center Ft Detrick, MD	
0945-1000		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 Ronald Hoover, PhD	Ocean Ballroom
1030-1045		Cerebral Glucose Metabolism During Wake & Sleep Predicts response to Praosin in Military Veterans with PTSD	Anne Germain, PhD University of Pittsburgh Pittsburgh, PA	
1045-1100		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		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		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		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		Brain Injury: Relationship to Military Occupational Hypobaric Exposure	Stephen McGuire, MD University of Texas Health Science Center San Antonio, TX	
1200-1300		Lunch	Lunch	
1215-1315		Lunchtime Breakout Session Ft Benning Study (Methicillin Resistant Staphylococcus Aureus/Skin & Soft Tissue Injury)	Moderator CDR Gail Chapman, USN	Clearwater/Orlando
	1215-1230	Overview	Ellis	
	1230-1252	Epidemiology of Skin and Soft-Tissue Infections in Trainees at Fort Benning	Ellis	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1252-1315	Impact of the Nasal Microbiome on the Development of Staphylococcal Skin and Soft-Tissue Infections at Fort Benning	Ryan	
1300-1500		Breakout Sessions	Breakout Sessions	
		Human Performance & Occupational Health Human Performance Research	Moderator Mr. Cliff Otte	Ocean 1
	1300-1303	Introduction	Vanderbeek	
	1303-1316	A National Survey of Call-Shift Fatigue Experiences in Certified Registered Nurse Anesthetists	Spence	
	1316-1329	Integrated Operational Tools to Monitor for Warfighter Fatigue	Mollicone	
	1329-1342	Competitive Abstract MHSRS-765 Sleep Deprivation Decreases Fear Conditioned Skin Conductance Levels	Germain	
	1342-1355	Effects of U.S. Navy Diver Training on Physiological Parameters, Time of Useful Consciousness, and Cognitive Performance During Periods of Normobaric Hypoxia	Haran	
	1355-1408	An Evidence-Based Wellness and Safety Program Enhances the Performance Triad.	Goldberg	
	1408-1421	The SHIELD (Safety & Health Improvement: Enhancing Law Enforcement Departments) Study: A New Health Enhancement Model For Active and Retired Military Personnel	Kuehl	
	1421-1434	AMES Enhances Movement Performance in Both Impaired and Able-Bodied Adults	Cordo	
	1434-1447	Biomechanical Differences of the Warfighter When Wearing Load-Distributing Personal Protective Equipment Compared With Traditional Gear	Dominguez	
	1447-1500	The Effects of Distraction, Restraints, Training, and Seat Location on Vehicle Egress Time	Thompson	
		Trauma Care - Extremity Trauma & Limb Regenerative Research	Moderators COL Romney Andersen, USA and Joseph Wenke, PhD	Ocean 2
	1300-1305	Introduction	Andersen and Wenke	
	1305-1319	Local Inflammatory Response May Be Affected By Distant Trauma in Combat-Related Extremity Wounds	Lisboa	
	1319-1333	Near-Infrared Spectroscopy in the Sub-Acute Setting of Lower Extremity Trauma	Freedman	
	1333-1347	Contaminated Open Fracture Wounds are Hypovascular but Hyperperfused	Gilbert	
	1347-1401	Effect of Grafting Materials on Bone Healing in a Chronic Caprine Tibial Defect Model	Pluhar	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1400-1415	Translational Autologous Approaches for Regeneration of Skeletal Muscle	Rathbone	
	1415-1429	Factors Influencing Infection in 10-years of Combat Open Tibia Fractures	Penn-Barwell	
	1429-1443	The Lessons of War: Turning Medical Data into Clinical Decisions	Elster	
	1442-1457	The Military Orthopaedic Trauma Registry: Quality Data Now Available	Rivera	
	1457-1500	Wrap -Up	Andersen and Wenke	
		Graduate Medical Education American College of Surgeons Committee on Trauma Region 13 Resident Presentations	Moderator Col Jeff Bailey, USAF	Ocean 3
	1300-1305	Introduction	Bailey	
	1305-1328	Basic Science Category Administration of FTY720 During Tourniquet-Induced Hind Limb Ischemia-Reperfusion Injury Attenuates Morbidity and Mortality	Sexton	
	1328-1351	Clinical Science Category Early Complications and Outcomes in Combat Injury-Related Invasive Fungal Infections: A Case-Control Analysis	Lewandowski	
	1351-1414	Clinical Science Category A Simplified Trauma Triage System Safely Reduces Overtriage and Improves Provider Satisfaction: A Prospective Study	Shawhan	
	1414-1437	Clinical Science Category The Transfusion Effect Revisited – The Impact of Deceased Organ Donor Blood Transfusions on the Outcomes of 1990 Renal Grafts	de la Cruz	
	1437-1500	Clinical Science Category Training and Skills Sustainment - Combat Casualty Simulation and Training - A Comparison of Two Medical Training Modalities for CAF Medical Technicians: Live Tissue Training and High Fidelity Patient Simulator	Pannell	
		Trauma Care - Prehospital & Tactical Combat Casualty Care	Moderators LTC Robert Mabry, USA and Sylvain Cardin, PhD	Ocean 4
	1300-1303	Introduction	Mabry and Cardin	
	1303-1316	Rapid Sequence Induction of Anaesthesia via the Intraosseous Route: A Prospective Observational Study	Barnard	
	1316-1329	Evaluation of Junctional Tourniquets in a Care Under Fire Exercise: Feedback Regarding Application and Practical Use	Shackleford	
	1329-1342	Evaluation of Hydroxocobalamin Compared to Hextend® for Resuscitation of Type III Hemorrhage in a Swine Model	Bebarta	
	1342-1355	Prospective Study of Ketamine During Tacevac	Rush	
	1355-1408	Feedback to the Field: Linking Postmortem Observations to Tactical Combat Casualty Care	Mazuchowski	
	1408-1421	Role I Trauma Experience of the Israeli Defense Force on the Syrian Border	Benov	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1421-1434	Battlefield Trauma Care Documentation at the Point of Injury	Gross	
	1434-1447	Implementation of a Joint Trauma System Pre-Hospital Trauma Registry in Afghanistan: Cracking the Code on Data Capture for Tactical Combat Casualty Care	Geracci	
	1447-1500	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.	Sauer	
1500-1530		Break	Break	
1530-1730		Breakout Sessions	Breakout Sessions	
		Human Performance & Occupational Health Environmental/Occupational Health Hazards	Moderator David Jackson, PhD	Ocean 1
	1530-1545	Heat Stroke, Return to Duty Status, and the Impact of Heat Tolerance Testing	Heaney	
	1545-1600	Novel Biomarkers for the Determination of Heat Stroke Severity	Quinn	
	1600-1615	A New Rapid Field Assessment of Heat Stroke Severity Using cTnl Point-of-Care Test Strips	Audet	
	1615-1630	Alteration in Circulating Metabolites During and After Heat Stress in the Conscious Rat: Potential Biomarkers of Exposure and Organ-Specific Injury	Ippolito	
	1630-1645	A Mobile Application for Prediction of Acute Mountain Sickness, Work Performance, and Altitude Acclimatization	Muza	
	1645-1700	Establishment of a Model for Investigating the Impact of Combined Environmental and Psychological Stressors	Galdzicki	
	1700-1715	Neutrophils Generate Microparticles Following Exposure to Inert Gases Due to Cytoskeletal Oxidative Stress	Thom	
	1715-1730	Chronic CO2 Retention Induces Gastroesophageal Lesions in Rats	Dean	
		Trauma Care - Craniofacial Trauma & Face Regenerative Research	Moderators Lt Col Michael Davis, USAF and Brian Pfister, PhD	
	1530-1542	Localized Low Dose rhBMP-2 is Effective at Promoting Bone Regeneration in a Pre-Clinical Mandibular Segmental Defect Model	Carlisle	
	1542-1554	Repair of Rat Calvarial Critical Size Defects with Endothelial and Osteocyte Differentiated Adipose-Derived Stem Cells	Orbay	
	1554-1606	Collagen-Based Biomask as a Promising Skin Graft for Facial Burn	Cheng	
	1606-1618	Adipose Stem Cells are Able to Substitute for Fibroblasts and Support Keratinocyte Proliferation and Survival on a Collagen Matrix	Tholpady	
	1618-1630	Subtotal Nasal Reconstruction: A Case Highlighting Military and Civilian Collaboration to Achieve an Optimal Restorative Outcome	Latham	
	1630-1642	The Evolution of Structural Fat Grafting and Potential Military Applications	Coleman	
	1642-1654	Structural Fat Grafting for Craniofacial Trauma: A Project of the Biomedical Translational Initiative	Rubin	
	1654-1706	Face Transplantation In A Highly Sensitized Recipient	Bueno	
	1706-1718	Subdermally Applied Drug Eluting Micro-Particles Delay Acute Rejection Within Vascularized Composite Allotransplant Grafts	Fries	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1718-1730	Use of Mercury in Dental Applications	Dunn	
		Graduate Medical Education Are the King's Clothes Tattered? The Value Graduate Medical Education Research	Moderators Woodson Scott Jones, MD and CAPT Eric Elster, USN	Ocean 3
	1530-1535	Introduction	Elster	
	1535-1550	Military GME Research: The Opportunities	Kellerman	
	1550-1605	Research and GME: Challenges/Accreditation	Jones	
	1605-1620	Ingredients for Successful GME Research	Elster	
	1620-1635	Intentional Mentorship of Research Faculty	Murray	
	1635-1655	The Next Generation: Resident Research Success Stories	Borgman and Forsberg	
	1655-1725	Panel discussion	LTG Robb, Rice, Kellerman and Speakers	
	1725-1730	Wrap-Up	Jones	
		Trauma Care - Burn & Intensive Care	Moderators Col Jeremy Cannon, USAF and Jose Salinas, PhD	Ocean 4
	1530-1533	Introduction	Cannon and Salinas	
	1533-1546	Does Creatinine Kinase Predict Renal Failure in Combat Casualties	Elterman	
	1546-1559	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	Schwartz	
	1559-1612	The Future of Minimally Extracorporeal Life Support for Single and Multiorgan Failure	Batchinsky	
	1612-1638	Burn Intensive Care Unit Multidisciplinary Approach Facilitates Adult Extracorporeal Life Support Therapy	Mitchell	
	1638-1625	Determinants of Mortality in Combined Burn/Trauma Injuries: Size Makes a Difference	Palmieri	
	1638-1651	Pulmonary Emboli and Deep Vein Thromboses: Are They Always a Part of the Same Disease Spectrum?	Gordon	
	1651-1704	Determination of the Optimal Delirium Screening Tool for Burn Intensive Care Unit Patients	Mann-Salinas	
	1704-1717	Full-Thickness Burn Size: More Important Than Total Burn Size in Determining Fluid Needs During Burn Resuscitation?	Salinas	
	1717-1730	Prospective Multicenter Randomized Skin Graft Cover Dressing Clinical Trial	Chan	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
Thursday, 21 Aug				
0800-0830		Awards Ceremony	COL Dallas Hack, USA and Col Todd Rasmussen, USAF	Ocean Ballroom
		Administrative Remarks	Moderator COL Michael Kozar, USA	
0830-0855		Keynote Presentation FDA Role in Facilitating the Development, Approval, and Availability of DoD Medical Countermeasures	CAPT Carmen T. Maher, USPHS Deputy Director, Office of Counter Terrorism and Emerging Threats Food and Drug Administration	
0855-0910		The ARMoR Program: DoD's Response to Escalating Antimicrobial Resistance	COL Emil P. Lesho, USA Walter Reed Army Institute of Research Forest Glen, MD	
0910-0925		A Handheld Fluorescence Imaging Device for Assessment of Chronic Wound Infections: Pilot Clinical Results	Ralph DaCosta, PhD MolecuLight, Inc. Toronto, Canada	
0925-0940		Impulse Noise Injury Model	Philemon Chan, PhD L-3 Communications San Diego, CA	
0940-1000		Break	Break	
1000-1200		Breakout Sessions	Breakout Sessions	
		Human Performance & Occupational Health Injury Prevention - Sensory & Musculoskeletal Injuries	Moderator Richard Shoge, PhD	Ocean 1
	1000-1015	An Interim LAeq8 Criterion for Impulse Noise Injury	Zagadou	
	1015-1030	Advanced Hearing Protection Requirements	Meegan	
	1030-1045	Blast Wave Pressure Dynamics at the Cornea as a Function of Eye Protection	Harding	
	1045-1100	Biomechanics-Based Predictions of Recruit Injury and Performance Outcomes During US Army Basic Combat Training	Negus	
	1100-1115	Non-Invasive Detection of Musculoskeletal Injuries: Use of Raman and Diffuse Reflectance Spectroscopy in Mice	Kottke	
	1115-1130	Hierarchical Development of Biomedically Validated Human Computational Models for Injury Prediction	Armiger	
	1130-1145	Dynamic Response Index is Not a Suitable Predictor of Spinal Injury Risk in Underbelly Blast	Spurrier	
	1145-1200	Comparison of Injury Incidence Between the T-11 Advanced Tactical Parachute System and the T-10 Parachute	Hoedebecke	
		Neurotrauma/Traumatic Brain Injury Session 1	Moderators Kenneth Curley, MD and Crystal Hill-Prior, PhD	Ocean 2
	1000-1012	Impairment of Olfactory Performance in Combat Troops Diagnosed with Traumatic Brain Injury: Prospective Controlled Study	Xydakis	
	1012-1024	The Brain Injury Guidelines: A Prospective Analysis	Joseph	
	1024-1036	Postural Sway Metrics after Concussion: Implications for Balance Testing	King	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1036-1048	Competitive Abstract MHSRS-714 Is Simple Reaction Time the Best Indicator of White Matter Disruption in Service Members with Invisible Wounds of War?	Spira	
	1048-1100	TEAM TBI: Diagnosis of White Matter Damage with High Definition Fiber Tracking in Patients with Chronic TBI	Schneider	
	1100-1112	Neuroradiology Findings in a Cohort of Military Service Members with Traumatic Brain Injury	Riedy	
	1112-1124	Visualizing "Invisible Wounds" and Developing Therapeutic Approaches for Blast-wave-induced Mild TBI	Chen	
	1124-1136	Evaluation of an Operational Return-to-Duty Assessment Program: Preliminary Assessment of the Construct Validity using an Archived Database of Clinical Data	Ranes	
	1136-1148	Can "Return to Play" be Predicted From Brain Electrical Activity at Time of Concussive Injury in Athletes?	Prichap	
	1148-1200	Evaluating the Effectiveness of (Early) Psycho-Educational Intervention for Military Personnel with Mild Traumatic Brain Injury: A Cohort Study	Brunger	
		Infectious Disease & Complications Wounds/Skin/Soft Tissue Infections	Moderator LTC Wendy-Sammons-Jackson, USA	Ocean 3
	1000-1020	CHD-FA is a Highly Effective Topical Broad-Spectrum Antimicrobial for Drug-Resistant Wound Infections	Perlin	
	1020-1040	Mathematical Models Can Identify Biomarkers and Mechanisms of Chronic Wound Inflammation	Mitrophanov	
	1040-1100	Monoclonal Antibody Made Against the Type Six Secretion System of <i>Acinetobacter baumannii</i> Can Protect From Infection and Be Used as a Diagnostic	Zurawski	
	1100-1120	Infection Reduction Observed in First-in-Man Use of a Novel Blood Plasma-Based Biomaterial Treatment for Open Tibia Fractures	J. Smith	
	1120-1140	Early Complications and Outcomes in Combat Injury Related Invasive Fungal Wound Infections: A Case-Control Analysis	Lewandowski	
	1140-1200	Evaluation of a Bioelectric Dressing as the Next Generation Wound Care Product	Izadjoo	
		Training & Skills Sustainment Military-Civilian Training & Sustainment Platforms	Moderators Col Raymond Fang, USAF and CAPT Eric Elster, USN	Ocean 4
	1000-1005	Introduction	Fang and Elster	
	1005-1020	Air Force Center for Sustainment of Trauma and Readiness Skills at the University of Maryland's R Adams Cowley Shock Trauma Center	Fang	
	1020-1035	Navy Trauma Training Center at the LA County/University of Southern California Medical Center	Ricks	
	1035-1050	Army Trauma Training Center at the University of Miami's Ryder Trauma Center	Seery	
	1050-1105	Operating a Military Level I Trauma Center Caring for Civilian Trauma - San Antonio Experience	Putnam	
	1105-1120	Surgical Skills Blueprinting: A Path Ahead	Ritter	
	1120-1200	Sustaining Trauma Skills in Peacetime: Challenges Following Operation DESERT STORM	LTG (ret) Carlton	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
1200-1300		Lunch	Lunch	
1215-1315		Lunchtime Breakout Session Trauma, Infection, Disease Outcomes Studies	Moderator LTC Wendy Sammons-Jackson, USA	Clearwater/Orlando
	1215-1230	Environmental Factors Associated with the Presence of Mold: Potential Risk Factors for Combat-Trauma Related Invasive Fungal Wound Infections	Tribble	
	1230-1245	Lessons of War: Combat-Related Injury Infections During the Vietnam War and Operation Iraqi and Enduring Freedom (OIF/OEF)	Murray	
	1245-1300	Risk Factors for Infection in Combat Casualties From Iraq and Afghanistan	Tribble	
	1300-1315	Tranexamic Acid Administration and Infection Risk in Combat Casualties	Lewis	
1300-1500		Breakout Sessions	Breakout Sessions	
		Psychological Health & Rehabilitation & Recovery Psychological Health - Suicide	Moderator LTC Dennis McGurk, USA	Ocean 1
	1300-1305	Introduction	McGurk	
	1305-1325	Improving the Detection and Prediction of Suicidal Behavior Among Military Personnel by Measuring Suicidal Beliefs: An Evaluation of the Suicide Cognitions Scale	Bryan	
	1325-1345	Optimizing Screening and Risk Assessment for Suicide Risk in the U.S. Military	Ribeiro	
	1345-1405	Management of Suicide-Related Events During Deployment	Holloway	
	1405-1425	Post Admission Cognitive Therapy (PACT) for the Inpatient Treatment of Military Personnel with Suicide-Related Ideation and Behavior	Neely	
	1425-1445	A Virtual Hope Box Smartphone App as an Accessory to Therapy: Proof of Concept in a Clinical Sample of Veterans	Bush	
	1445-1500	Discussant Comment & Discussion	McGurk	
		Neurotrauma/Traumatic Brain Injury Session 2	Moderators Kenneth Curley, MD and CDR Rene Hernandez, USN	
	1300-1312	The Effects of Combat-related Mild Traumatic Brain Injury: Does Blast mTBI History Matter?	Kontos	
	1312-1324	The Natural History of Acute Recovery of Blast-Induced Mild Traumatic Brain Injury: A Case Series During War	Carr	
	1324-1336	Multiple Past Concussions Are Associated with Ongoing Symptoms but not Cognitive Impairment in Active Duty Army Soldiers	Dretsch	
	1336-1348	Predictors of Mental Health Outcomes of Mild Traumatic Brain Injury: Concussion Clinics in Afghanistan	Eskridge	
	1348-1400	Histopathological Changes and Cognitive Deficits Following Closed-Head Concussive Injury in Rats	Leung	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1400-1412	Chronic Post Concussive Symptoms in Soldiers Returning from Service in Iraq or Afghanistan and at 3 Months Follow-Up: A Prospective Cohort Study	Schwab	
	1412-1424	Differences in Symptom Severity in mTBI Patients With and Without PTSD	DeGrabs	
	1424-1436	In vivo Two-Photon Imaging Revealed Abnormal Cerebral Microcirculation Following Mild Traumatic Brain Injury	Jin	
	1436-1448	Multicenter Comparison of Five Therapies Reveals Therapeutic Potential for Levetiracetam: Studies From Operation Brain Trauma Therapy	Shear	
	1448-1500	The Isobolic Approach to Combination Drug Therapy Development for Traumatic Brain Injury	Shear	
		Pain Management - Acute & Chronic Pain Management	Moderators Marcie Fowler, PhD and Tony Gover, PhD	Ocean 3
	1300-1315	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	Standifer	
	1325-1330	Traumatic Brain Injury Modulates Key Neurochemicals With Reciprocal Interactions in the Pain Pathway	Elliott	
	1330-1345	Prehospital Pain Medication Use by U.S. Forces in Afghanistan	Shackelford	
	1345-1400	Pharmacological Studies of NOP-Related Agonists as Novel Analgesics in Nonhuman Primates	KO	
	1400-1415	Opioid-Sparing Therapeutic Regimen for Traumatic and Neuropathic Pain	White	
	1415-1430	Preemptive Bupivacaine Treatment Blocks Long-Term Allodynic Responses in a Rat Spinal Nerve Ligation Model for Neuropathic Pain	Clifford	
	1430-1445	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)	Naguib	
	1445-1500	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	Cheppudira	
1330-1530		Infectious Disease & Complications Infectious Disease Research & Diagnostics	Moderator CDR Gail Chapman, USN	Ocean 4
	1330-1350	Combating Staphylococcal Skin and Soft-Tissue Infections in Trainees at Fort Benning	Ellis	
	1350-1410	Unit Practice Council Successful Efforts for Implementing Use of Alcohol Port Protectors	Mitchell	
	1410-1430	Changing the Way the DoD Performs Pathogen Surveillance: The Results of the Analysis of MERS-CoV in the Military Population	Starr	
	1430-1450	Dramatic Decline of Respiratory Illness Among US Military Recruits After the Renewed Use of Adenovirus Vaccines	Hawksworth	

2014 MHSRS AGENDA

Date	Presentation Sub-Times	Presentation Title	Speaker or Event	Meeting Room
	1450-1510	Lateral Flow Rapid Test for Diagnosis of Scrub Typhus – A Febrile Illness of Historical Military Importance In The Pacific Rim	Chao	
	1510-1530	Intra-Operative Dip-Coating of Orthopedic Hardware Prevents Biofilm Formation and Supports Fracture Healing in a Large Animal Model	Schaer	
1530		MHSRS 2014 Ends	MHSRS 2014 Ends	