

2018 MILITARY HEALTH SYSTEM RESEARCH SYMPOSIUM AGENDA

Breakout Sessions

BREAKOUT SESSIONS - Monday, 20 August 2018

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
One Hour Session 1330 - 1430	Emerging Trends in Artificial Intelligence for Healthcare <i>Room - Sun D456</i>	1330 - 1335	Context Setting	Ben Petro, Ph.D. CAPT Joseph P. Cohn, USN
		1335 - 1340	Introduction: The Need for AI in Defense	Terry Rauch, Ph.D.
		1340 - 1355	The Evolution of AI: Where it has Been & Where it is Going	Dylan Schmorrow, Ph.D.
		1355 - 1410	Managing the Transformative Impact of AI: Social and Ethical Implications	Ron Hodge
		1410 - 1425	AI Research & Development in the Department of Defense: Overview & Opportunities	Robert Bonneau, Ph.D.
		1425 - 1430	Q&A	
		Out of the Crucible: Lessons from the Transformation of Casualty Care in Iraq & Afghanistan and a Reset for the Future of Military Medicine <i>Room - Naples</i>	1330 - 1430	Out of the Crucible: Lessons from the Transformation of Casualty Care in Iraq & Afghanistan and a Reset for the Future of Military Medicine
Three Hour Session 1430 - 1730	Alternative, Non-pharmacological, and Rehabilitation Management of Concussion/Mild TBI <i>Room - Sun D456</i>	1430 - 1445	Introduction	LTC Matthew Scherer, USA Wesley R. Cole, Ph.D.
		1445 - 1500	Otolith Dysfunction and Postural Stability: A Chronic Effects of Neurotrauma Consortium Study	Faith Akin, Ph.D.
		1500 - 1515	Does the Vestibular/Ocular Motor Screening (VOMS) Tool Predict Recovery following Concussion?	Anthony Kontos, Ph.D.
		1515 - 1530	Head Kinematics and Head-Trunk Coordination Associated with Clinical and Community-Based Gait Activities in People with and without Vestibular Hypofunction	MAJ Mark Lester, USA
		1530 - 1545	Free-living Mobility Improves with Vestibular Rehabilitation Following Mild Traumatic Brain Injury	Samuel Stuart, Ph.D.
		1545 - 1600	Improvements in Turning Speed but not Gait Speed in People with Mild Traumatic Brain Injury Following Vestibular Rehabilitation	Peter Fino, Ph.D.
		1600 - 1615	Development and Preliminary Evaluation of a Dynamic Marksmanship Battery for Use with Soldiers Following Head Injury: Sensitivity to Vestibular Disturbance Relevant to Return-to-Duty	Thomas Britt, Ph.D.
		1615 - 1630	Assessment of Balance After Mild Traumatic Brain Injury: Are Vestibular and Ocular-motor Testing Capturing all Balance Deficits?	Laurie King, Ph.D.
		1630 - 1645	Head and Body Dyskinesia During Gait in Patients with Vestibular Deficit Following Concussion	Pinata Sessoms, Ph.D.
		1645 - 1700	Activity Level During Acute Concussion Predicts Symptom Recovery Within an Active Duty Military Population	Rosemay Remigio-Baker, Ph.D.
		1700 - 1715	Progressive Return to Activity After Mild Traumatic Brain Injury Results in Expedited Symptom Resolution for Activity Duty Military	Jason Bailie, Ph.D.
		1715 - 1730	The Low and High Utilizers of Clinical Services Following a First Diagnosis of mTBI	Jesus Caban, Ph.D.



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Three Hour Session 1430 - 1730	Extremity and Craniomaxillofacial Regeneration <i>Room - Naples</i>	1430 - 1445	Characterization of Repressor Element-1 Silencing Transcription Factor Expression in Adult Mesenchymal Stem Cells	LTC Leon Nesti, USA
		1445 - 1500	Peripheral Nerve Matrix Hydrogel Promotes Recovery Following Extremity Trauma Involving Peripheral Nerve Injury	Bryan Brown, Ph.D.
		1500 - 1515	A Device to Accelerate Nerve Regeneration: Translational Animal Study Comparing Brief Electrical Stimulation to FK506	Eric Walker, Ph.D.
		1515 - 1530	Long Gap Peripheral Nerve Repair in a Non-human Primate Model	Kacey Marra, Ph.D.
		1530 - 1545	MRI DTI Tractography Can Distinguish Partial Nerve Laceration Using an Animal Model	Angel Farinas Chopite, M.D.
		1545 - 1600	Soft Tissue Regeneration for Limb Salvage: A Prospective, Randomized Controlled Trial of a Tissue Engineering-based Technique	Frank Lau, M.D.
		1600 - 1615	De Novo Belatacept in Clinical Vascularized Composite Allotransplantation	Linda Cendales, M.D.
		1615 - 1630	Outcomes of Digital Flexor System Reconstruction with Sterile, Acellular Composite Flexor Tendon Allografts: A Single Institution Clinical Trial	Brent DeGeorge, M.D., Ph.D.
		1630 - 1645	The Regeneration Window: Periosteal Chondrogenesis and Temporal Dynamics of BMP2-induced Middle Phalanx Regeneration in the Adult Mouse	Lindsay Dawson, Ph.D.
		1645 - 1700	Assessment of a BMPR1a/ALK3 Ligand Trap to Dampen Early BMP Chondro-osteogenic Signaling in a Rat Model of Blast-associated Combat-related Lower Limb Trauma	LCDR Philip Spreadborough, USN
		1700 - 1715	Assessment of a Novel 3D Tunable Scaffold Technology for Bone Tissue Regeneration of Critical Sized Defects Using a Goat Tibia Segmental Defect Model	David Anderson, M.D.
1715 - 1730	A Novel BMP-2 Delivery Device Induces Superior Bone Formation Compared to InFuse® In A Rat Critical Defect Model	Yi Arnold, Ph.D.		
Two Hour Session 1330 - 1530	Telehealth/Virtual Health/Remote Monitoring in the MHS <i>Room - Tallahassee</i>	1330 - 1335	Introduction and Brief Discussion on the Breakout Session	Loretta Schlachta-Fairchild, Ph.D.
		1335 - 1348	Hypertension Control Rate and Baseline Characteristics in a Military Medical Center Population: Evaluating Potential for Telemedicine Integration	CPT Kyle Couperus, USA
		1348 - 1401	Optimal Health and Wellness: Increasing Access to Behavioral Healthcare through Implementation of a Joint-Service, Multidisciplinary Telehealth Program	LT Akeeka Davis, USN
		1401 - 1414	Virtual Health to Home: A TBI Pilot Study	Kendra Jorgensen-Wagers, Ph.D.
		1414 - 1427	Mentored vs. Non-Mentored Military Medics Compared in the Application of the ITCLAMP to a Simulated Wound Without Prior Training. A Potential Option for Just In Time Hemorrhage Control.	MAJ Andrew Kirkpatrick, Canadian Armed Forces
		1427 - 1440	Remotely Deploying tDCS for Mental Readiness	Leigh Charvet, Ph.D.
		1440 - 1453	Development of Mobile Web-Based Application for Pre and Post Operative Patient Education of the Military Surgery Patient	Amanda Schmeltz, M.Ed.



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Two Hour Session 1330 - 1530	Telehealth/Virtual Health/Remote Monitoring in the MHS <i>Room - Tallahassee</i>	1453 - 1506	Asynchronous Telemedicine Reduces MEDEVAC from Iraq and Syria	LTC Craig Dobson, USA
		1506 - 1519	Development of a Wireless Monitoring Device for Tele-Medical Care with Accurate Pulse Oximetry from Upper Extremity Locations	Marcus Kramer, Ph.D.
		1519 - 1530	Q&A	All
Two Hour Session 1330 - 1530	State of the Science for Trainee & Deployment Related Events to Include Wounds, Skin & Soft Tissue Infections <i>Room - Miami</i>	1330 - 1350	A Modular Vaccine Technology for use Against Zoonotic Diseases, including Disease X	Michael Super, Ph.D.
		1350 - 1410	Deployment-associated Cutaneous Leishmaniasis: Consider Treatment with Topical Paromomycin Cream via the DoD Expanded Access Program	Naomi Aronson, M.D.
		1410 - 1430	Refractory Pseudomonas aeruginosa Mediated Infections of a Lung Transplant and Left Ventricular Assist Device (LVAD) Successfully Treated with Intravenous Bacteriophage Cocktails	CDR Christopher Duplessis, USN
		1430 - 1450	Development of Strategies to Counter Wound Infections in Maritime Environments	LT Jae Dugan, USN
		1450 - 1510	Recurrent Bacteremia: A 10-year Retrospective Study in Combat-related Burn Casualties	Amit Aurora, Ph.D.
		1510 - 1530	Naval Health Research Center's Operational Support for the Shiga Toxin-Producing E. coli Outbreak at Marine Corps Recruit Depot San Diego, California	LCDR Paul Graf, USN
Two Hour Session 1330 - 1530	Psychological Health & Resilience <i>Room - Tampa</i>	1330 - 1345	Cognitive-Emotional Reactions to Killing Among USAF Remotely Piloted Aircraft Weapon Strike Warfighters	Wayne Chappelle, Ph.D.
		1345 - 1400	Malleable Beliefs about Resilience Attenuate Post-traumatic Stress Symptoms (PTSS) for Military Personnel after High-stress Training	MAJ Walter J. Sowdan, USA
		1400 - 1415	Unit Training to Increase Support for Soldiers Seeking and Remaining in Mental Health Treatment	MAJ Thomas Britt, USA
		1415 - 1430	Transitioning LINKS: Unit-based Training Effectiveness	MAJ Thomas Britt, USA
		1430 - 1445	Resilience and Performance Enhancement with Specialized Units Preparing for Deployment	Susannah Knust, Ph.D.
		1445 - 1500	iCOVER for Acute Stress Reactions in Combat: Transitioning an Israeli Intervention for U.S. Service Members	Yvonne Allard
		1500 - 1515	Translating Research: The Importance of an Integrated Team of Content and Contextual Experts to Develop a Knowledge Product	Susannah Knust, Ph.D.
		1515 - 1530	The Effects of Military Service on Mental Condition of Field Observers in Reconnaissance Battalion	Avi Benov, M.D., MHA
Two Hour Session 1330 - 1530	Management of Sleep & Fatigue for Maximization of Soldier Operational Readiness <i>Room - Sarasota</i>	1330 - 1345	Catechol-O-Methyltransferase (COMT) Genotype Affects Dynamic Decision Making during Sleep Deprivation	Hans Van Dongen, Ph.D.
		1345 - 1400	Why Can't You Just Stay Awake? Resistance to Sleep Deprivation is Associated with Measureable Differences in Brainstem Gray Matter	William Killgore, Ph.D.
		1400 - 1415	A Neural Marker of Resilience to Vigilant Attention Impairment during Sleep Deprivation	Briann C. Satterfield, Ph.D.
		1415 - 1430	2B-Alert App: A Validated Tool to Predict Individual Warfighter Alertness in Real Time	Jaques Reifman, Ph.D.
		1430 - 1445	Quantifying the Unique Patterns of Individual and Team Sleep Behavior in the Military Operational Context	MAJ Walter J. Sowden, USA



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Two Hour Session 1330 - 1530	Management of Sleep & Fatigue for Maximization of Solider Operational Readiness <i>Room - Sarasota</i>	1445 - 1500	Fatigue Recovery Enhancement Using Noninvasive Neuromodulation Technology	Richard Hanbury, MBA, Dip. Law, BA. Hons
		1500 - 1515	Enhancing Slow Wave Sleep with Closed-Loop Transcranial Electrical Stimulation	Stephen Simons, Ph.D.
		1515 - 1530	Effectiveness of Mobile Health Behavioral Sleep Treatment in Post-9/11 Service Members and Veterans: A Pilot Study	Anne Germain, Ph.D.
Two Hour Session 1330 - 1530	Enroute Care <i>Room - Sun C123</i>	1330 - 1332	Introduction	Col Antoinette M. Shinn, USAF
		1332 - 1348	Air-Evacuation-Relevant Hypobaria Following Traumatic Brain Injury Plus Hemorrhagic Shock Increases Mortality and Injury to the Gut, Lungs, and Kidneys	Gary Fiskum, Ph.D.
		1349 - 1405	Histopathological Evidence of Multiple Organ Damage After Simulated Long-range Flight in a Swine Model	Anke Scultetus, Ph.D.
		1406 - 1422	In-Vivo Detection of Gaseous Microemboli during Aeromedical Evacuation using the Cardiohelp Extracorporeal Life Support System	George Harea, B.S.
		1423 - 1439	U.S. Army Critical Care Flight Paramedic Medical Task Saturation Study – Unconstrained Environment	Rachel Kinsler, M.S.
		1440 - 1456	2017 Navy Search and Rescue Patient Care and Operations	Stephanie McWhorter, M.A.
		1457 - 1513	Collecting Real-Time Research Data During Aeromedical Evacuation: Lessons Learned	Lt Col Jennifer Hatzfeld, USAF
		1514 - 1530	Analysis of Regulated En Route Care – A Scoping Study	Elizabeth Bridges, Ph.D.
Two Hour Session 1330 - 1530	Medical Advancements in Operational & Clinical Hearing Protection & Treatment <i>Room - Sanibel</i>	1330 - 1335	Introduction	Lt Col Brandon Tourtillott, USAF
		1335 - 1350	A Small Molecule Combination Restores Hair Cells and Improves Hearing in Mice with Noise-induced Hearing Loss	Will McClean, Ph.D.
		1350 - 1405	Identifying Genetic Susceptibility to Hearing Loss Using Survey and Audiogram Data in the Coriell Personalized Medicine Collaborative	Wendy Roberts, Ph.D.
		1405 - 1420	Effects of Solvent and Noise Exposure on Military Service Members	Tanisha Hammill, Ph.D.
		1420 - 1435	Military Impulse Noise Exposures and Damage-Risk Criteria: Middle Ear Considerations for Hearing Risk Assessment Models	Heath Jones, Ph.D.
		1435 - 1450	Field Evaluation of Extended Wear Hearing Aids for Readiness Restoration	LaGuinn Sherlock, Au.D.
		1450 - 1505	A Hearing Protection Device Evaluation Protocol for the Auditory Hazard Assessment Algorithm for Humans	Timothy Wiliilko, Ph.D.
		1505 - 1525	Assessment and Rehabilitation of Hearing Deficits in Service Members with Normal Hearing Thresholds	Doug Brungart, Ph.D.
		1525 - 1530	Closing Remarks	Lt Col Brandon Tourtillott, USAF
Two Hour Session 1600 - 1800	The Health & Readiness of Military Families <i>Room - Sarasota</i>	1600 - 1608	Screening of Military Family Research, 2014 - 2017	LCDR Whitney Brock, USN
		1608 - 1621	When Parents go to War: Psychosocial Adjustment among the Families of Deployed OEF/OIF Service Members	Deborah Beidel, Ph.D.
		1621 - 1633	Active Duty Personnel Parenting Children with Special Needs: An Epidemiological Study	Hannah Kwiatkowski, MPH
		1633 - 1645	Connecting the Dots in Military Family Relationships, Networks, and Health	Penny Pierce, Ph.D.



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Two Hour Session 1600 - 1800	The Health & Readiness of Military Families <i>Room - Sarasota</i>	1645 - 1657	Health-Related Characteristics in a Cohort of Military Caregivers: Caring for Wounded, Ill, and Injured Veterans	Roxana Delgado, Ph.D.
		1657 - 1710	The Effect of Service Member and Spousal Alcohol Misuse on Retention	Ben Porter, Ph.D.
		1710 - 1722	Comparing Trauma Exposures in Females: Military Spouses Versus Non-Military College Students	LTC Kristal Melvin, USA
		1722 - 1735	An Examination of Continuity in Distress and Role Functioning Across Deployment	Kenona Southwell, Ph.D.
		1735 - 1747	Parenting Stress in Navy Families: The Importance of Spirituality and Social Support	CDR Abigail Yablonsky, USN
		1747 - 1800	Relational Health: Protective Factors for Service Members, Couples, and Families	Angela Lamson, Ph.D.
Two Hour Session 1600 - 1800	Clinical Decision Support, Robotics, & Autonomous Systems <i>Room - Sanibel</i>	1600 - 1612	The Virtual Lab: New Medical Science & Technology Research Task Areas in Medical Intelligent Systems Require Paradigm Shift	Gary Gilbert, Ph.D.
		1612 - 1624	Machine Learning and Targeted Image Guidance for Airway Management	Sabina Siddiqui, M.D.
		1624 - 1636	Convolutional-Neural-Network Based Machine-Learning Interpretation for Hand-Held Ultrasound Images: Lung Imaging by Ultrasonography is More Sensitive than Radiography for Detecting Acute Respiratory Distress Syndrome	Cynthia Gregory, Ph.D.
		1636 - 1648	FEMCATH-AI: Machine Learning Assisted Ultrasound Image-Guided Rapid Femoral Vascular Catheterization System	Brian Telfer, Ph.D.
		1648 - 1700	Development of a Novel Machine Learning-based Sepsis Risk Index for Use in an Intelligent Antibiotic Decision Support System for the Hospital/Critical Care Setting	Scott Pappada, Ph.D.
		1700 - 1712	Foundational Research Towards Semi-Autonomous Surgery	Crystal Krause, Ph.D.
		1712 - 1724	Telesurgical Robotic Operative Network: Addressing Signal Latency and Signal Loss in Telerobotic Tasks using a Novel and Trauma-specific Wide-field Telesurgical Robot	MAJ Steven Hong, M.D.
		1724 - 1736	Multi-Spectral Imaging of Burns: Hemoglobin Breakdown Products Need to be Accounted for in Order to Accurately Quantify Functional Tissue Parameters	Gordon Kennedy, Ph.D.
		1736 - 1748	Effectiveness of Closed-Loop PEEP and Fluid Resuscitation When Used Synergistically in an Acute Lung Injury and Hypovolemia Animal Model	Muzna Khan, M.S.
1748 - 1800	Clinically Validated Continuous Lactate Monitor in Commercial Development	John Weidling, Ph.D.		
Two Hour Session 1600 - 1800	Forward Surgical Care: Bringing Surgical Capabilities to the Point of Need <i>Room - Sun C123</i>	1600 - 1615	A Critical Analysis of Battlefield Trauma Systems: Despite Overall Lower Mortality, there was a Higher Rate of Death after Reaching a Treatment Facility in Recent Conflicts Compared to Vietnam	COL Shawn Nessen, USA
		1615 - 1630	Two-Year Experience of Select Role 2 Facilities in AFRICOM	LCDR Brendan O'Brien, USN
		1630 - 1645	Sustainment and Readiness Training During Deployment: Implementation of a Clinical and Operational Sustainment Training Program in the Deployed Environment	COL Jennifer Gurney, USA
		1645 - 1700	Surge or Submerge?: Predicting Staffing Needs, Surge Capability, and Maximal Patient Care Capabilities in MASCAL, Disaster, and Combat Settings	MAJ Jessica Cassidy, USA



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Two Hour Session 1600 - 1800	Forward Surgical Care: Bringing Surgical Capabilities to the Point of Need <i>Room - Sun C123</i>	1700 - 1715	Effect of Sea State on Motion Sickness Incidence and Task Load Index while Performing Traumatic Damage Control Resuscitation and Surgery	Lt Steven Prueitt, USAF
		1715 - 1730	Morphomic Analysis of Arterial Vasculature for REBOA	Stewart Wang, M.D., Ph.D.
		1730 - 1745	Beyond Hemorrhage Control – Endovascular Perfusion Augmentation for Critical Care: Next Generation Partial Aortic Occlusion for Treatment of Severe Ischemia-Reperfusion Shock	Timothy Williams, M.D., Ph.D.
		1745 - 1800	An Evaluation of Novel Medical Devices and Other Interventions in the Treatment of Tension Pneumothorax in a Swine Model	CPT Rowan Sheldon, USA
Two Hour Session 1600 - 1800	Blast-Induced Tinnitus <i>Room - Miami</i>	1600 - 1615	Impact of Tinnitus on Military Service Members	James Henry, Ph.D.
		1615 - 1630	Test-Retest Reliability of Tinnitus Questionnaires and Brain Imaging Measures at Military and Civilian Sites	Fatima Husain, Ph.D.
		1630 - 1645	On the Emerging Fields of Perceptual and Cognitive Magnetic Resonance Spectroscopy in Blast-Induced Tinnitus	Anthony Cacace, Ph.D.
		1645 - 1700	Blast-Induced Cochlear Synaptopathy in Chinchillas	Christopher Smalt, Ph.D.
		1700 - 1715	Central and Peripheral Auditory Abnormalities in Animal Models of Blast-Injury	Namas Chandra, Ph.D.
		1715 - 1730	Targeting TNF-alpha for Treating Blast-Induced Tinnitus in Rats	Jinsheng Zhang, Ph.D.
		1730 - 1745	Alternative Tinnitus Management Techniques Developed from Volitional Control over the Activity of the Auditory Cortex	Matthew Sherwood, Ph.D.
		1745 - 1800	Panel Discussion	Raj Gupta, Ph.D. Moderator
Two Hour Session 1600 - 1800	Rehabilitation Following Service Related Neuromusculoskeletal Injuries <i>Room - Tallahassee</i>	1600 - 1620	A Novel Assessment for Readiness Evaluation during Simulated Dismounted Operations: A Reliability Study	Christopher A. Rábago, PT, Ph.D.
		1620 - 1640	Long-term Changes in Gait Mechanics Correlate with Cartilage Loss in Patients at High Risk for Post-Traumatic Osteoarthritis	Jessica Asay, M.S.
		1640 - 1700	Whole-body Vibration Training in Healthy Males Promotes Stem/Progenitor Cell Circulation and Decreased Inflammation Levels	M. Terry Loghmani, PT Ph.D.
		1700 - 1720	Enhancing Rehabilitation after Neurological Injury with Vagus Nerve Stimulation	Seth Hays, Ph.D.
		1720 - 1740	The Ability of the Patient-Reported Outcomes Measurement Information System to Predict Pre-Operative American Shoulder and Elbow Surgeons Shoulder Assessment Form Scores	Timothy Mauntel, Ph.D.
		1740 - 1800	Real-time Feedback Enhances Learning Experience and Emphasizes Consistency and Accuracy of Joint Mobilizations to the Knee	MAJ Christopher Allen, USA



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Two Hour Session 1600 - 1800	Pain Management <i>Room - Tampa</i>	1600 - 1615	Developing Novel Non-Opioid Analgesics for Combat Casualty Care	Kenneth Hargreaves, Ph.D.
		1615 - 1630	Gender Differences in Safety and Efficacy of the Sufentanil Sublingual Tablet 30 mcg for Treatment of Moderate-to-Severe Acute Pain	Karen DiDonato, M.S.N., R.N.
		1630 - 1645	Development of a Novel Non-addictive Analgesic for Acute and Chronic Pain	Ajay Yekkirala, Ph.D.
		1645 - 1700	Efficacy of Triamcinolone Acetonide Extended-Release in Patients With Unilateral Knee Osteoarthritis	Michael Langworthy, M.D.
		1700 - 1715	Effects of Ketamine on Cardiovascular and Respiratory Responses to a Moderate 40 Percent Hemorrhage in Rats	Harold Klemcke, Ph.D.
		1715 - 1730	Dronabinol use in Military Patients Undergoing Opioid Wean at an Interdisciplinary Pain Clinic	Michael Bartoszek, M.D.
		1730 - 1745	Can Preoperative and Postoperative Treatment with Percutaneous Peripheral Nerve Stimulation Prevent Chronic Postoperative Pain?	Joseph Boggs, Ph.D.
		1745 - 1800	Chemokine Receptor Antagonists as a Novel Strategy to Enhance Pain Management	Martin Adler, Ph.D.



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PLENARY SESSIONS - Tuesday, 21 August 2018				
Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
0800 - 1000	Plenary Session A <i>Room - Sun C123</i>	0800 - 0820	Anatomic Patterns of Fatal Battle Injuries during Contingency Operations in Iraq and Afghanistan from 2001-2014	Jud Janak, Ph.D. Joint Trauma System Joint Base San Antonio, Ft Sam Houston, TX
		0820 - 0840	Results of the Prospective Clinical Evaluation of Biomarkers of Traumatic Brain Injury (ALERT-TBI) Pivotal Study (Identifier: NCT01426919)	Andy Jagoda, M.D., FACEP Department of Emergency Medicine, Icahn School of Medicine at Mount Sinai New York, NY
		0840 - 0900	Utilizing Urinary Biomarkers for Precision Medicine Triage Determinations in Combat Casualties: From Benchtop to Battlefield	Lt Col Ian J. Stewart, USAF David Grant USAF Medical Center Travis AFB, CA
		0900 - 0920	The Use of Whole Blood in Operation Inherent Resolve and Operation Freedom's Sentinel since the Introduction of Low Titer Type-O Whole Blood: Feasibility, Acceptability, Challenges	CPT Cecily K. Vanderspurt, USA Task Force 47 Baghdad, Iraq
		0920 - 0940	Sedative and Analgesic Management Practices of Critical Care Air Transport Teams (CCATT) for Ventilated, Critically Injured Patients	Col Vikhyat Bebartha, USAFR University Of Colorado School of Medicine, Aurora, CO; AF Enroute Care Research Center, San Antonio, TX
		0940 - 1000	A Two-gram Prehospital Bolus of Tranexamic Acid Improves Survival after Traumatic Brain Injury in Patients with Intracranial Hemorrhage	Martin A. Schreiber, M.D., FACS COL, USAR Oregon Health & Science University Portland, OR
0800 - 1000	Plenary Session B <i>Room - Sun D456</i>	0800 - 0820	Increasing Quantity and Accuracy of Point of Injury Documentation	Capt Isiah Bragg, USAF 711 Human Performance Wing Wright Patterson AFB, OH
		0820 - 0840	The Deepwater Horizon Oil Spill Coast Guard Cohort Study – A Comprehensive Evaluation of the Health Effects from Oil Spill Disasters	Jennifer Rusiecki, Ph.D. Uniformed Services University Bethesda, MD
		0840 - 0900	Establishing the Safety and Effectiveness of ReCell® as an Autograft-sparing Technology for Definitive Closure of Burn Injuries	James Holmes, M.D. Wake Forest Burn Medical Center Winston Salem, NC
		0900 - 0920	Factors that Contribute to Mental Health and Quality of Life in Combat Injured Women	Judy Dye, Ph.D., APRN, CNS, ANP-BC Naval Health Research Center San Diego, CA
		0920 - 0940	Development of a Percutaneous Prosthesis for Transfemoral Amputees, the Utah Experience	Joseph B. Webster, M.D. Hunter Holmes McGuire VA Medical Center Richmond, VA
		0940 - 1000	Population Based Active Surveillance of 4 Cambodian Villages: 5 Year Summary	CAPT Dennis Faix, USN NAMRU2 Phom Phen, Cambodia



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Young Investigator Competition - Tuesday, 21 August 2018

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
0800 - 1000	Young Investigator Competition Room - Miami	0800 - 0812	Hemostatic Characteristics of Thawed Pooled Cryoprecipitate Stored for 35 Days at Refrigerated and Room Temperatures	CPT Joshua L. Fenderson, USA Blood Research Program, US Army Institute of Surgical Research Fort Sam Houston, TX
		0812 - 0824	Association of Increased Serum S100B Levels with High School Football Subconcussive Head Impacts	Keisuke Kawata, Ph.D., ATC. Department of Kinesiology, School of Public Health, Indiana University Bloomington, IN
		0824 - 0836	Life Saving Surgical Procedures in Blackout Conditions Using Night Vision Technology: Come to the Dark Side	CPT Michael Derickson, USA Madigan Army Medical Center Tacoma, WA
		0836 - 0848	Effectiveness and Downstream Healthcare Utilization for Patients that Received Early Physical Therapy versus Usual Care for Low Back Pain: A Randomized Clinical Trial	Daniel I. Rhon, PT, DSci, OCS, FAAOMPT Center for the Intrepid, Brooke Army Medical Center Joint Base San Antonio - Fort Sam Houston, TX
		0848 - 0900	A New Serum Biomarker Stress Test Correlates with Novel MRI UTE-T2* and Gait Mechanics in Patients at High Risk for Post-Traumatic Osteoarthritis	Matthew R. Titchenal, M.S. Stanford University Stanford, CA
		0900 - 0912	Targeted Muscle Re-innervation Successfully Treats Neuroma Pain and Phantoms in Major Limb Amputees: A Randomized Clinical Trial	Lauren Mioton Connor, M.D. Division of Plastic Surgery, Northwestern Feinberg School of Medicine Chicago, IL
		0912 - 0924	Therapeutic Intervention in the Prevention of Hypertrophic Scar Development – Novel Dressings	Timothy C. Haire, Ph.D. U.S. Army Institute of Surgical Research Joint Base San Antonio Ft Sam Houston, TX
		0924 - 0936	Selective Eradication of Methicillin-resistant Staphylococcus aureus via Photolysis of Saphyloxanthin	Jie Hui, Ph.D. Department of Electrical and Computer Engineering, Boston University Boston, MA
		0936 - 0948	Obstructive Sleep Apnea Risk is Associated with Cognitive Impairment After Controlling for TBI: A Chronic Effects of Neurotrauma Consortium Study	Amanda Garcia, Ph.D. James A. Haley Veterans Hospital Tampa, FL
		0948 - 1000	Tobacco Use and Prevalence of Human Papillomavirus in Self-Collected Cervicovaginal Swabs Between 2009 and 2014	MAJ Christopher M. Tarney, USA Department of Obstetrics & Gynecology Walter Reed National Military Medical Center, Uniformed Services University of the Health Sciences Bethesda, MD



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Breakout Sessions

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One Hour Session 1300 - 1400	Translation of Military Lessons in Bystander Bleeding Control to the Civilian Sector: Review and Discussion of Stop the Bleed and Hartford Consensus Initiatives <i>Room - Sun D456</i>	1300 - 1400	Translation of Military Lessons in Bystander Bleeding Control to the Civilian Sector: Review and Discussion of Stop the Bleed and Hartford Consensus Initiatives	Eric Goralnick, M.D., M.S. Eunice M. Singletary, M.D. Matthew Jason Levy, D.O., MSc. Panelists Craig Goolsby, M.D., MEd. Moderator
One Hour Session 1300 - 1400	Regenerative Rehabilitation <i>Room - Tallahassee</i>	1300 - 1315	Directing Plasticity to Restore Function after Peripheral Nerve Injury	Eric Meyers, Ph.D.
		1315 - 1330	Electrically Enhanced Stem Cell Therapy for Peripheral Nerve Regeneration	Shang Song, Ph.D.
		1330 - 1345	Exploring Metabolic Plasticity of the Remaining Muscle after Volumetric Muscle Loss Injury as a Means to Preserve and/or Improve Functional Capacity and Regeneration	Jarrold Call, Ph.D.
		1345 - 1400	Kinetic and Biomechanical Analysis of Tissue Engineered Muscle Repair (TEMR) Treated Rodents after Volumetric Muscle Loss Injury	Jack Dienes
One Hour Session 1300 - 1400	Developing Insights into Response to Neurotrauma Sustained by the Warfighter and Development of "Omic" Based Precision Interventions <i>Room - Naples</i>	1300 - 1312	The Impact of Non-Neurological Organ Dysfunction on Outcomes in Severe Isolated Traumatic Brain Injury	Mohammad Hamidi, M.D.
		1312 - 1324	Association of Time to Craniectomy with Survival in Combat Casualties	Randall McCafferty, M.D.
		1324 - 1336	Combat Role Predicts Cortical Thickness, Visual and Sensory Performance, and Cognition in Special Operations Forces Personnel	Jason Mihalik, Ph.D.
		1336 - 1348	Risk Stratification Models for Long-term Adverse Outcomes in CT Negative mild TBI	Timothy Van Meter, Ph.D.
		1348 - 1400	Glasgow Outcome Scale Extended – Differences Counting Disability from Only Brain Injury Versus Including Peripheral Injuries in Those with GCS 3-12	Nancy Temkin, Ph.D.
Three Hour Session 1400 - 1700	Hemorrhage Control & Resuscitation <i>Room - Sun D456</i>	1400 - 1415	Comparison of Massive and Emergency Transfusion Prediction Scoring Systems with a New Bleeding Risk Index Score in a Military Relevant Population	Peter Hu, Ph.D.
		1415 - 1430	Multicenter Validation of the Revised Assessment of Bleeding and Transfusion (RABT) Score for Predicting Massive Transfusion	Mohammad Hamidi, M.D.
		1430 - 1445	Rapid Triage of Mortality in Major Trauma by Platelet Function	Mitchell George, M.D.
		1445 - 1500	Would Pre-hospital Whole Blood Transfusion Improve Mortality in Severely Injured Patients?	Caroline Zhu
		1500 - 1515	Prehospital Air Medical Plasma Following Trauma and Hemorrhagic Shock: The PAMPer Cluster Randomized Trial	Jason Sperry, M.D.



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Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Three Hour Session 1400 - 1700	Hemorrhage Control & Resuscitation <i>Room - Sun D456</i>	1515 - 1530	Plasma Co-Administration Improves Resuscitation with Tranexamic Acid or Prothrombin Complex in a Porcine Hemorrhagic Shock Model	John Kuckelman, D.O.
		1530 - 1545	4-Factor Prothrombin Complex Concentrate Improves Survival in Trauma: A Nationwide Propensity Matched Analysis	Muhammad Zeeshan, M.D.
		1545 - 1600	Tourniquet Use is Not Associated with Limb Loss Following Military Lower Extremity Arterial Trauma	David Kauvar, M.D.
		1600 - 1615	The Next Generation of Tourniquets: What Makes Them Better?	Dean Nachman, M.D.
		1615 - 1630	Fabrication of Injectable, Expansive, Elliptical Nanofiber Matrices ("Foam Peanuts") with a Potential Application for Noncompressible Hemorrhage	Mark Carlson, M.D.
		1630 - 1645	Resuscitative Endovascular Balloon Occlusion of the Aorta: Assessing Need in an Urban Trauma Center	Jeremy Cannon, M.D.
		1645 - 1700	Nationwide Analysis of Compliance with Best Practice Guidelines for Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA)	Muhammad Zeeshan, M.D.
Three Hour Session 1400 - 1700	Rehabilitation Following Limb Trauma & Amputation <i>Room - Tallahassee</i>	1400 - 1418	Quality of Life Assessment after Major Extremity Trauma: Developing a New Patient Reported Outcome Measure	Jerry Slotkin, Ph.D.
		1418 - 1436	The Ewing Amputation: The First Human Implementation of the Agonist-Antagonist Myoneural Interface	Tyler Clites, Ph.D.
		1436 - 1454	Targeted Muscle Reinnervation at the Time of Major Limb Amputation Prevents Phantom Limb and Residual Limb Pain	Sumanas Jordan, M.D., Ph.D.
		1454 - 1512	Multiaxial Movement Within Transtibial Sockets and the Relationship to Fit	Matthew Wernke, Ph.D.
		1512 - 1530	Trunk Muscle Activations, Motions, and Spinal Loads among Persons with Lower Limb Amputation: Influences of Chronic Low Back Pain	Bradford Hendershot, Ph.D.
		1530 - 1548	Residual Limb Muscle Strength Plays a Key Role in Walking Economy After Amputation	Adam Yoder, M.S.
		1548 - 1606	Assessing the Impact of Powered Ankle Prosthesis on Activity in the Home	Deanna Gates, Ph.D.
		1606 - 1624	Investigation of Factors to Drive Powered Hand Orthosis Design	Todd Farrell, Ph.D.
		1624 - 1642	Expanding Traditional Pre-prosthetic Therapy: A Mobile, Game-based Approach to Myoelectric Training	Mitchell Ruble, M.S.
		1642 - 1700	Development of a Sensory-enabled Neuroprosthetic Hand System	Ranu Jung, Ph.D.
Three Hour Session 1400 - 1700	Translating Military TBI Research into Clinical Practice <i>Room - Naples</i>	1400 - 1404	TBI – Introduction to the Translation of Military TBI Research into Clinical Practice	Karen Schwab, Ph.D.
		1404 - 1418	The Acute Natural History of Concussion – Normal Recovery	Steven P. Broglio, Ph.D., ATC
		1418 - 1432	Characteristics and Course of Clinical Recovery in Civilian Patients with Mild Traumatic Brain Injury (GCS 13-15)	Lindsay D. Nelson, Ph.D.
		1432 - 1446	Improvement in Sleep Disturbances after Targeted Intervention in Chronic Traumatic Brain Injury: A TEAM-TBI Study	David O. Okonkwo, M.D., Ph.D.



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Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Three Hour Session 1400 - 1700	Translating Military TBI Research into Clinical Practice <i>Room - Naples</i>	1446 - 1500	Differences in Development of Neuropsychiatric Symptoms and PTSD in Service Members With Combat and Non-Combat TBI	CAPT Morgan Hardy, USN
		1500 - 1514	Longitudinal Tracking of Neuromotor Performance after Repeated Sub-Concussive Head Trauma from Blast Exposure Using a Custom Smartphone App	Christopher K. Rhea, Ph.D.
		1514 - 1528	Association of Clinically Diagnosed Depression with Total, Inpatient, Outpatient, and Pharmacy VA Costs in Veterans Diagnosed with Traumatic Brain Injury	Clara Dismuke-Greer, Ph.D.
		1528 - 1542	Distinguishing the Relative Impact of PTSD and TBI on Cognitive Function	Michael J. Roy, M.D., MPH
		1542 - 1556	Clinical Measures Collected Within 7 Days Post Injury in Theater Predict 5-Year Clinical Outcome in Non-Medically Evacuated Mild Blast TBI	Christine Mac Donald, Ph.D.
		1556 - 1610	Diffusion Tensor Imaging Predicts Virtual Reality Driving Performance in Chronic Traumatic Brain Injury	Mark L. Ettenhofer, Ph.D.
		1610 - 1624	Point-of-Care GFAP Versus Core Lab S100B Biomarker Testing for CT Abnormalities in Traumatic Brain Injury: A Prospective TRACK-TBI Study	David Okonkwo, M.D., Ph.D.
		1624 - 1638	"Return to Duty" as an Outcome Metric: Pitfalls, Problems, and Policy	Wesley R. Cole, Ph.D.
		1638 - 1652	Diagnosing Mild Traumatic Brain Injury: Description and Findings of Methods Used in the Chronic Effects of Neurotrauma Consortium (CENC) Multicenter Observational Study	William C. Walker, M.D.
		1652 - 1700	Closing Remarks	Karen Schwab, Ph.D.
Two Hour Session 1300 - 1500	Point of Injury and Trauma Simulation (POINTS) <i>Room - Sarasota</i>	1300 - 1305	Introduction	Darrin Frye, MPH
		1305 - 1320	Augmented Reality Training for Tactical Combat Casualty Care	Glenn Taylor, M.S.
		1320 - 1335	Teleproctoring with Mixed Reality: A Comparative Evaluation in the Context of Lower-Limb Fasciotomies	Juan Wachs, Ph.D.
		1335 - 1350	Validation of a Virtual Simulation for Tactical Combat Casualty Care	Matthew Hackett, Ph.D.
		1350 - 1400	Q&A	
		1400 - 1415	Development of Screen-based Simulation Content for Training and Assessing Trauma Nursing Proficiency	Benjamin Bauchwitz, B.S.
		1415 - 1430	Prehospital and Surgical Combat Casualty Care Training Using a Novel-Pressurized Cadaver Simulation Model	CDR Travis Polk, USN
		1430 - 1445	Medical Simulation Center and 3D Medical Applications Center: a Partnership for Production of Low Cost Task Trainers Essential for Military Medical Provider Surgical Skill Acquisition	William Sweeney, Ph.D.
		1445 - 1455	Q&A	
		1455 - 1500	Summary	Darrin Frye, MPH



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Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1300 - 1500	Minimizing the Impact of Wound Infections Following Blast-Related Injuries <i>Room - Sun C123</i>	1300 - 1315	Antibiotic Practice Patterns with Blast-Related Extremity Wound Infections	Laveta Stewart, Ph.D.
		1315 - 1330	Interrogation of Combat Wound Infection through Integrative Metagenomic Analyses of the Wound Microenvironment and Corresponding Clinical Outcomes	Nicholas Be, Ph.D.
		1330 - 1345	Bone Selective Antibiotic Therapies for the Treatment of Osteomyelitis	Frank Ebetino, Ph.D.
		1345 - 1400	Nanoemulsion is an Effective Anti-Microbial for Methicillin-Resistant Staphylococcus Aureus in Infected Swine Skin Burn Wounds	Suhe Wang, Ph.D.
		1400 - 1415	Topical HS-XCu, a Novel Copper-Loaded Silicate Nanoparticle Ointment, is Effective Against Methicillin Resistant Staphylococcus aureus (MRSA) in a Porcine Infected Wound Model	Chris Pazoles, Ph.D.
		1415 - 1430	Use of Whole Genome Sequencing to Create a Panel of Diverse, Extensively-characterized Clinical Pseudomonas aeruginosa Isolates for Research Use	MAJ Anthony Jones, USA
		1430 - 1500	Panel Discussion	Susan Taylor, M.S. Moderator
Two Hour Session 1300 - 1500	Enhancing Human Performance & Survivability in Extreme Environments <i>Room - Tampa</i>	1300-1315	From One Extreme to Another: A Multidisciplinary Approach to Ensuring Astronaut Health and Performance	Andrew Abercromby, Ph.D.
		1315 - 1330	Defining Countermeasure Needs for Protecting Performance and Health in the Exploration Era of Spaceflight	Meghan Downs, Ph.D.
		1330 - 1345	Effects of Extreme Hypobaric Environments Upon the Brain in Specialized Operators	Paul Sherman, M.D.
		1345 - 1400	The Effects of 5-Hydroxymethyl-2-Furfural (5-HMF) on Blood Oxygenation and Muscle Function in Rats Exposed to Hypobaric Hypoxia	LT Geoff Ciarlone, USN
		1400 - 1415	40% Body Surface Area Burned is an Inappropriate Cutoff for the US Army's Standards of Medical Fitness for Burn Injuries: Effects of Environmental Temperature	Craig Crandall, Ph.D.
		1415 - 1430	An Artificial Intelligence System for Real-Time Individualized Core Temperature Estimation	Jaques Reifman, Ph.D.
		1430 - 1445	Tiotropium Bromide Prophylaxis Reduces Pulmonary Function Decrements in Swine (Sus scrofa) Exposed to Operationally Relevant Hyperbaric Oxygen Exposures	LCDR William Cronin, USN
		1445 - 1500	Comparison of Recompression Treatment Table Efficacy in a Swine (Sus scrofa) Model of Neurological Decompression Sickness	LT William Johnson, USN
Two Hour Session 1300 - 1500	From Bench to Battlefield: Translating Promising Research Into Fielded Capabilities <i>Room - Miami</i>	1300 - 1305	Introduction	Kathleen Berst, MBA
		1305 - 1330	Maintaining the Department of Defense's Lethal Edge: Delivering Biomedical Research & Development for a Complex and Unpredictable Future	CAPT Joseph Cohn, USN
		1330 - 1355	Air Force Medical Acquisition Enterprise	Col Martin LaFrance, USAF



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Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1300 - 1500	From Bench to Battlefield: Translating Promising Research Into Fielded Capabilities <i>Room - Miami</i>	1355 - 1420	Naval Medical Research Center Advanced Medical Development Program: Navy's RDT&E Program for Advanced Development of Medical Products	Janet Weir, M.S.
		1420 - 1445	US Army Medical Unit Assemblage Management in the Field	Kathleen Berst, MBA Tyler Bennett, Ph.D. Johanna Gilbertz, B.A.
		1445 - 1500	Questions, Answers, and Close Out	All
Two Hour Session 1300 - 1500	Case Records of the Joint Trauma System <i>Room - Sanibel</i>	1300-1500	Case Records of the Joint Trauma System	Col (RET) Donald Jenkins, USAF COL (RET) John Holcomb, USA COL Martin Schreiber, USAR Col (RET) Raymond Fang Col, USAF CDR Jacob Glaser, USN Lt Col Brian Gavitt, USAF COL Mathew Martin, USA COL Brian Eastridge, USAR Panelists COL Jennifer M. Gurney, MC, USA John Oh, M.D. Moderators
Two Hour Session 1530 - 1730	Healthcare Informatics for Agility/Medical Artificial Intelligence <i>Room - Sarasota</i>	1530 - 1535	Introduction	Loretta Schlacta-Fairchild, Ph.D.
		1535 - 1550	Cost for Colon Cancer Care in the U.S. Military Health System: An Analysis by Care Source and Benefit Type	Yvonne L. Eaglehouse, Ph.D., MPH
		1550 - 1605	Immunization Registries and Electronic Health Records: Better Capture of Immunization Status of Military Families through Merging of Systems	Margaret Ryan, M.D., MPH
		1605 - 1620	Machine Learning to Predict Early Disease Detection: A Case Study in Knee Replacement Due to Osteoarthritis	Amir Rahimi, Ph.D.
		1620 - 1635	Deep Learning for Automated Identification and Quantification of Acute Intracranial Hemorrhages	Peter Chang, M.D.
		1635 - 1650	Using Natural Language Processing and Machine Learning to Enhance DoD/VA Data Exchange	Richard Barnhill, B.S.
		1650 - 1705	Comparison of Department of Army and Department of Navy Influenza Laboratory Surveillance Methods	Ashleigh McCabe, MPH
		1705 - 1720	Enabling Medical Device Data Usability for Real-Time AI-based Clinical Decision Support	Julian Goldman, M.D.
		1720 - 1730	Q & A	All
Two Hour Session 1530 - 1730	Graduate Medical Education & Military Readiness <i>Room - Sanibel</i>	1530 - 1545	Leadership Training in GME: Is It Time for a Requirement?	Col Mark True, USAF
		1545 - 1600	The Advanced Burn Provider Course: Results from an Evidence-Based Curriculum Design with Innovative Simulators	Jeffrey Carter, M.D.
		1600 - 1615	Uniformed Services University Medical Student Leader Training in a Military Medical Field Exercise	Erin Barry, M.S.
		1615 - 1630	The Effect of Contextual Factors on Clinical Reasoning: A Mixed Methods Study Examining Outcome and Process	Steven Durning, Ph.D.
		1630 - 1645	Let's Train the Way We Fight: True Evidenced-Based Recommendations for Military General Surgeons	CAPT Zsolt Stockinger, USN
		1645 - 1700	Joint Emergency Medicine Exercise: A Two-year Pilot Project	CDR Travis Deaton, USN
		1700 - 1715	Detecting Differences in the Interpretation of Radiographs: Do Gaze Data Vary Based on Level of Expertise?	CPT Kyle Marshall, USA
		1715 - 1730	Supporting Point of Care Ultrasound in Navy Family Medicine Graduate Medical Education to Achieve the Quadruple Aim	LT John Sullivan, USN



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Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1530 - 1730	Precision Medicine in Critical Care for the Injured Warfighter <i>Room - Tampa</i>	1530 - 1542	An Improved Model to Predict Pneumonia in Combat Trauma Patients	CDR Matthew Bradley, USN
		1542 - 1554	Acute Blood Levels of Two Neuronal Biomarkers (UCH-L1 and NSE): Correlation to Cranial CT Abnormality: A TRACK-TBI Phase 1 Study	Kevin Wang, Ph.D.
		1554 - 1606	Link Between Extracellular Mitochondrial DNA and Soluble CD40 Ligand in Post-Traumatic Sterile Inflammation	Muath Bishawi, M.D. MPH
		1606 - 1618	Does the Timing of Pelvic and Acetabular Surgery Impact a 'Second-hit' Inflammatory Response in Multiply Injured Patients?	Greg Gaski, M.D.
		1618 - 1630	High Mobility Group Box 1 Protein Increases after Pulmonary Contusion in a Combat-relevant Polytrauma Model	Jae Hyek Choi Ph.D., DVSc
		1630 - 1642	An FHIR-Enabled Streaming Sepsis Prediction System for ICUs	Shamim Nemati, Ph.D.
		1642 - 1654	Using Circulating Glycosaminoglycans to Detect Post-septic Immunoparalysis	Eric Schmidt, M.D.
		1654 - 1706	Immune Response Profiling with Alcohol Intake In The Setting Of Trauma	Alexander Limkakeng, M.D.
		1706 - 1718	Computational Simulations of Thrombin, Factor Xa, and Activated Protein C in Blunt Trauma-Injured Patients At Hospital Admission	Maria Cristina Bravo, Ph.D.
		1718 - 1730	Point-of-care Endoscopic Optical Coherence Tomography Detects Changes in Mucosal Thickness in ARDS Due to Smoke Inhalation and Burns	Jae Hyek Choi Ph.D., DVSc
Two Hour Session 1530 - 1730	Near Term Priorities & Future Needs for DoD Medical Acquisition Programs <i>Room - Miami</i>	1530 - 1540	Introduction	Kathleen Berst, MBA CAPT Joseph V. Cohn, USN Tyler Bennett, Ph.D.
		1540 - 1600	Controlling Hemorrhage on the Battlefield	Leigh Anne Alexander, M.S., MBA Victor Macdonald, Ph.D. Janet Weir, M.S Scott Walter, Ph.D.
		1600 - 1620	The Near-term Acquisition Program Model of Assessing and Treating Brain Injuries	Brian Dacanay, M.S. Krista Caudle, Ph.D.
		1620 - 1640	Improving Health and Readiness	Alan Harner, M.S., MBA Lt Col Melinda Eaton, USAF Janet Weir, M.S.
		1640 - 1655	Army Anti-Malarial Drug Development – An Advanced Development Case Study	MAJ Victor Zottig, USA
		1655 - 1720	Part 1: Panel on Lessons Learned in Transitioning Technology to an Acquisition Program- The Good, the Bad, the Ugly Part 2: Future Needs: Gaps for Future Acquisition Programs	LTC Kara Schmid, USA Scott Walter, Ph.D. Benjamin Chitty Janet Weir, M.S.
		1720 - 1730	Questions, Answers, and Close Out	Kathleen Berst, MBA CAPT Joseph V. Cohn, USN Tyler Bennett, Ph.D.



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Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1530 - 1730	Defense Health Program & U.S. Army Research Funding Opportunities <i>Room - Sun C123</i>	1530 - 1540	Congressionally Directed Medical Research Programs (CDMRP) Overview	COL Stephen Dalal, USA
		1540 - 1555	CDMRP Research Programs/DoD Support and Funding Process	Rebecca Fisher, Ph.D.
		1555 - 1615	CDMRP Funding Opportunities and Application Process – Strategies for Success	Allison Milutinovich, Ph.D.
		1615 - 1630	Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR) Programs – Overview and Opportunities	James R. Myers, B.S.
		1630 - 1640	Enhancing Fielded Medical Capabilities – Intramural Opportunities with Defense Health Program 6.7 Funds	Joan Cmarik, Ph.D.
		1640 - 1700	DoD-Funded Research and Collaborations – Planning for Success	Akua Roach, Ph.D.
		1700 - 1730	Funding Opportunities and Programs – Individual Table Discussions/Questions & Answers	Representatives from CDMRP SBIR/STTR office US Army Medical Research Acquisition Activity Human Research Protection Office/ Animal Care & Use Research Office DHP 6.7 Program



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Breakout Sessions

BREAKOUT SESSIONS - Wednesday, 22 August 2018

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 0800 - 1000	Mobile Health Applications in the Medical Theater of Operation <i>Room - Sanibel</i>	0800 - 0805	Introduction	Loretta Schlachta-Fairchild, Ph.D.
		0805 - 0818	Prototype of a Rugged Medic Smartphone (RMS) Medical Graphical User Interface (GUI) for use by Medics in Deployed Environments	Kenneth Wong, Ph.D.
		0818 - 0831	Hands-Free Wearable Device for Field Treatment of Trauma Medical Professional and First Responder Survey Results	Alvaro Rodriguez
		0831 - 0844	Validating Speech Algorithms on a Pooled mTBI Data Set for a Mobile Diagnostic Application	Gregory Ciccarelli, Ph.D.
		0844 - 0857	Wireless Gastric Resident Biomedical Electronics	Yong Lin Kong, Ph.D.
		0857 - 0910	An Applied Test of Knowledge Translation Best Practices Using a Mobile Health Solution	Robert Ciulla, Ph.D.
		0910 - 0923	Complete and Resilient Documentation (CARD) of Operational Medical Environments – Knowledge and Insight from Focus Groups Regarding the Use of GoPro® Equipment in Military and Civilian Medical Environments	Sarah Griffin, Ph.D.
		0923 - 0936	Context-aware Hands-free Multimodal Interfaces for Medical Information Documentation	Stephanie Kane, MFA
		0936 - 0949	A Smart Phone Application to Monitor and Improve Patient Compliance with Recovery Guidelines	Chuck Ringer, BSME
		0949 - 1000	Q&A	All
Two Hour Session 0800 - 1000	Disparities in PTSD Risk Factors & Treatment Access, Usage, & Outcomes. How Can We Improve? <i>Room - Miami</i>	0800 - 0815	Closing Gaps: Identifying and Framing Needs of Sexual Minority Soldiers in the Army	Jennifer McDonald, Ph.D.
		0815 - 0830	Ethnic and Gender Disparities in Seeking Behavioral Health Care Among Active Duty Army Soldiers	Katie Nugent, Ph.D.
		0830 - 0845	Investigation of Subjective and Objective Measures of PTSD Symptom Reduction in High Risk Groups Following a Brief Written Trauma Disclosure Protocol	Jennifer Myers, Ph.D.
		0845 - 0900	From Combat to Mass Shootings: Treating PTSD in the Aftermath of the Pulse Night Club Shooting	Deborah Beidel, Ph.D.
		0900 - 0915	Exploring Disparities in Awarding Service-connected Disability for PTSD for Active Duty OEF/OIF Military Service Members Based on Military Separation Code	Adi Gundlapalli, M.D., Ph.D.
		0915 - 0930	U.S. Soldier Behavioral Health Literacy	Jennifer McDonald, Ph.D.
		0930 - 0945	Addressing Military Mental Health Stigma through Policy: Methodology and Results of a Systematic Policy Analysis	Alexandra Kelly, Ph.D.
		0945 - 1000	Characterizing the Reasons that Individuals with Post-Traumatic Stress Disorder Prefer Certain Evidence-Based Treatment Options Over Others	Bella Etingen, Ph.D.



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Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 0800 - 1000	Environmental & Occupational Exposures <i>Room - Tampa</i>	0800 - 0820	The Potential for Genetic Variation to Impact Risk Estimates from Chemical Exposures in a United States Air Force Population	Jeffery Gearhart, Ph.D.
		0820 - 0840	DNA Methylation as a Historical Epigenetic Record of Environmental Exposure: Applications to Exertional Heat Stroke	Thomas L. Clanton, Ph.D.
		0840 - 0900	The Dept. of Veterans Affairs Depleted Uranium Follow-Up Program: 26 Years of Medical Surveillance	Stella Hines, M.D., MSPH
		0900 - 0920	Survey of Occupational and Environmental Exposure Monitoring Solutions	Kate Horne, Ph.D.
		0920 - 0940	Proximity to Documented Open-Air Burn Pits and Long-Term Respiratory Health Among Deployed Military Personnel	Rudolf Rull, Ph.D., MPH
		0940 - 1000	Advancements in Assessing Heat Stress Risk Using Physiological Monitoring and Airfield Meteorological Data	Dirk Yamamoto, Ph.D.
Two Hour Session 0800 - 1000	Pre-hospital Evaluation & Care of Moderate/Severe TBI in the Austere Environment <i>Room - Naples</i>	0800 - 0810	Overview of Problems Associated with Severe TBI in the Austere Environment	COL Jennifer Gurney, USA
		0810 - 0830	Challenges on the Ground: A Case Study in Prehospital Recognition and Treatment of TBI	SFC Paul Loos, USA
		0830 - 0850	Pathophysiology of Severe Traumatic Brain Injury	Mayumi Prins, Ph.D.
		0850 - 0910	Options for the Non-Invasive Assessment of Cerebral Physiology and Intracranial Injury of the Severe TBI Patient in the Austere Environment	MAJ David Van Wyck, USA
		0910 - 0930	Consensus Statement on Optimal Acute Medical Management of Severe TBI	Donald Marion, M.D.
		0930 - 0950	Criteria for Non-Neurosurgeons to Perform Cranial Surgery in the Far-Forward Deployed setting	Col Randy McCafferty, USAF
		0950 - 1000	Q&A	All
Two Hour Session 0800 - 1000	Blood Products & Military Blood Banking <i>Room - Sun D456</i>	0800 - 0810	Platelet Dysfunction after Severe Trauma is Associated with a Fall in Purine Triphosphates and Rise in cAMP	Daniel Darlington, Ph.D.
		0810 - 0820	Enhanced Bacterial Growth in Stored Platelets Due to Lactate Utilization Mitigated by Cold Storage	Patrick Ketter, Ph.D.
		0820 - 0830	Effect of Metabolic Exhaustion on Platelet Contractility and Clot Retraction	Prajeeda Nair, Ph.D.
		0830 - 0840	Cold Storage of Platelets in T-PAS+ for 18 Days is Safe and Functionally Comparable to Current Standards of Care: An In Vitro Pilot Study	Kristin Reddoch-Cardenas, Ph.D.
		0840 - 0850	Targeting the Endotheliopathy of Trauma with Cold (4C) Stored Platelets	Shibani Pati, MD., Ph.D.
		0850 - 0900	Validation of 10-day Cold Stored Platelets as an Available Blood Product for Trauma Resuscitation in the US Central Command Theater of Operations	LTC Jason Corley, USA
		0900 - 0910	Cryopreserved Platelets for Surgical Bleeding: Results of the CLIP Clinical Trial	COL Michael Reade, USA
		0910 - 0920	Hemostatic Functional Preservation of Refrigerator-Stored Whole Blood Over 35 Days	Michael Meledeo, Ph.D.



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Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 0800 - 1000	Blood Products & Military Blood Banking <i>Room - Sun D456</i>	0920 - 0930	Changes in Antibody Titer Levels Observed in a Low Titer Whole Blood Donation Program	MAJ Andrew Fisher, USA
		0930 - 0940	Modeling the Effects of Human Neutrophil Elastase On Coagulation Failure and Fibrinolysis	Christopher Barrett, M.D.
		0940 - 0950	Determining the Dose-limiting Toxicity of Systemic Administration of Mesenchymal Stem Cells (MSC)	Xiaowu Wu, M.D.
		0950 - 1000	ErythroMer (EM), a Nanoscale Bio-Synthetic Artificial Red Blood Cell: Pre-Clinical Results	Jennifer Richards, Ph.D.
Two Hour Session 0800 - 1000	Environmental Blast & Impact Sensors in Training & Brain Health Sustaining <i>Room - Sun C123</i>	0800 - 0812	Long-Term Consequences of Repeated Blast-Induced Mild Traumatic Brain Injury; Neuroimaging, Protein Biomarkers, Behavioral Changes and the Importance of Age at the Time of Injury	Denes Agoston, Ph.D.
		0812 - 0824	The Effect of Repetitive Head Impacts on Spontaneous Neural Rhythms and Cognitive Function	Derek Monroe, Ph.D.
		0824 - 0836	Relationship to Blast Overpressure Exposure to the Posterior Head and Changes in Brain Functioning of Service Members	Jason Bailie, Ph.D.
		0836 - 0848	Investigating the Neurological Effects of Training Associated Blast: Preliminary Neurocognitive Results from the I-TAB Study	Eric Schneider, Ph.D.
		0848 - 0900	Blast Dosimeter with Embedded Dose-Response Models	Philemon Chan, Ph.D.
		0900 - 0912	Evaluation of Environmental Sensors in Basic Airborne Training Part 1: Head Impact Kinematics and Sensor Performance	Tyler Rooks, M.S.
		0912 - 0924	Evaluation of Environmental Sensors in Basic Airborne Training Part 2: Cumulative Head Impacts, Head Impact Kinematics, and Performance	Amanda Kelley, Ph.D.
		0924 - 0936	WIAMan Biomechanics Research Program for Assessing Underbody Blast Injuries	Suzanne Bilodeau, M.S.
		0936 - 1000	Panel Discussion	Thuvan Piehler, Ph.D. Moderator
Two Hour Session 0800 - 1000	Advances in Treatment for Acute Radiation Syndrome <i>Room - Tallahassee</i>	0800 - 0815	Ionizing Irradiation Mitigator GS-nitroxide (JP4-039) is Deliverable in a Self-Administration I.M. Formulation	Michael Epperly, Ph.D.
		0815 - 0830	Combined Therapy of Ghrelin and Pegylated G-CSF Increases Survival by Mitigating Multi-Organ Injury Induced by Radiation	Juliann Kiang, Ph.D.
		0830 - 0845	Radioprotective and Radiomitigative Efficacy by a Single Dose of BBT-059	Sanchita Ghosh, Ph.D.
		0845 - 0900	Radiation Countermeasure by R-spondin 1, Slit2 and Fibroblast Growth Factor 4	Jian-Guo Geng, M.D., Ph.D.
		0900 - 0915	Anti-ceramide Antibody as Treatment for the Acute Radiation Gastrointestinal Syndrome	Vijay Singh, Ph.D.
		0915 - 0930	Temporal Trajectory of MicroRNA Expression Patterns in Response to Lethal Radiation Dose in a Minipig Model of Hematopoietic Acute Radiation Syndrome	Nabarun Chakraborty, M.S.
		0930 - 0945	Development of a Two Biomarker Based Blood Test for Detecting Acute Radiation Syndromes	Naduparambil Jacob, Ph.D.
		0945 - 1000	Use of a 3D Bioprinted Tissue Model in Radiation Studies: Applicability to Radiation Mechanism Studies and Radiotherapy Improvement	Alexandra Miller, Ph.D.



WEDNESDAY, 22 AUGUST 2018

Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1300 - 1500	Leveraging Various Serum Repositories for Translational Research in Individual & Population Precision Health <i>Room - Sanibel</i>	1300 - 1305	Session Introduction & Overview	CAPT Mark S. Riddle, MC, USN
		1305 - 1315	The DoD Serum Repository (DoDSR), A National Treasure for the Conduct of Military-relevant Medical Surveillance, Seroepidemiologic Investigations, and Research	Mark V. Rubertone, M.D., MPH
		1315 - 1330	Serological Profiling by Proteomic Microarray of Culture-confirmed ETEC-associated Travelers' Diarrhea	LCDR Tida Lee, MC, USN
		1330 - 1345	Utility of Biomarkers for Determining Aedes and Anopheles spp. Exposure During Deployments to High-risk Regions for Malaria or Arboviral Infections	Tahaniyat Lalani, MBBS, MHS
		1345 - 1400	Post-deployment Serum Samples Contain a Biological Signature of Deployment-related Environmental Exposures	Thomas Thatcher, Ph.D.
		1400 - 1415	Use of the US Department of Defense Serum Repository to identify Serological Biomarkers in Rheumatoid & Reactive Arthritis	CAPT Mark S. Riddle, MC, USN
		1415 - 1430	Cancer Epidemiology Studies Utilizing the Department of Defense (DoD) Serum Repository and Other DoD Data	Jennifer Rusiecki, Ph.D.
		1430 - 1445	Novel Biomarkers for Lung field Cancerization Predict Risk of Lung Cancer to Guide Prevention and Early Diagnosis	Ruben Magni, M.S.
		1445 - 1500	Panel Discussion	All
Two Hour Session 1300 - 1500	Precision Medicine in Physical & Mental Conditioning of the Warfighter <i>Room - Naples</i>	1300 - 1330	Value of Inclusion of Genetic Panel Testing as Standard of Care within the US Military Population	Rachel E. Ellsworth, Ph.D.
		1330 - 1400	The Epigenetic Changes of Adverse Childhood Experience, Combat Exposure, and Post-traumatic Stress Disorder in Active Duty Service Members	Maj Adam Willis, USAF
		1400 - 1430	Non-invasive, Quantitative Diffuse Optical Spectroscopy of Tissue Composition and Metabolism for Assessment of Physical Conditioning in Training and Rehabilitation	Robert Warren, Ph.D.
		1430 - 1500	Real-Time Stress Monitoring for Training and Operations in Extreme Environments	Zachary Huber
Two Hour Session 1300 - 1500	Innovations in PTSD Treatment Research <i>Room - Sun D456</i>	1300 - 1315	Biological, Demographic, and Psychological Predictors of Change in an Intensive Outpatient Program For PTSD	Sheila Rauch, Ph.D.
		1315 - 1330	Novel Pharmacological Targets for the Treatment of Combat-Related PTSD: Inflammation, Metabolism, and Mitochondrial Dysfunction	Owen Wolkowitz, M.D.
		1330 - 1345	Stellate Ganglion Block for Treatment of Posttraumatic Stress Disorder Symptoms: Preliminary Findings from an Effectiveness and Acceptability Study	Kristine Olmsted, MSPH
		1345 - 1400	Brief Prolonged Exposure for Combat-Related PTSD in Primary Care	Jeffery Cigrang, Ph.D.
		1400 - 1415	Spiritually Integrated Care for Trauma, Moral Injury, and Spiritual Distress: Building Spiritual Strength as an Evidence-Based Approach	CH (CPT) Timothy Usset, MDiv, MA, BCC, LMFT



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Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1300 - 1500	Innovations in PTSD Treatment Research <i>Room - Sun D456</i>	1415 - 1430	Website Analytics in the Evaluation of a New Tool for Increasing Clinician Awareness, Receptivity, and Implementation of Evidence-Based Practices for the Treatment of PTSD: The PTSD Clinicians Exchange	Julia Coleman, B.A.
		1430 - 1500	Panel Questions/Discussion	Ronald Hoover, Ph.D. Moderator
Two Hour Session 1300 - 1500	Does Repeated Blast-Related Trauma Contribute to the Development of Chronic Traumatic Encephalopathy? <i>Room - Miami</i>	1300 - 1310	The Effect of Repeated Exposure to Sub-Concussive Blast on Serum Biomarkers of Neuronal, Astroglial, and Vascular Damage: Results from a Pilot Study	Denes Agoston, Ph.D.
		1310 - 1320	Is There a Need for a High-Fidelity Computational Model to Characterize Brain Responses to Primary Blast Exposure?	Ginu Unnikrishnan, Ph.D. Jose Rubio, Ph.D.
		1320 - 1330	Relation Between Combat Exposure and Blood Concentration of Tau	Michael Egnoto, Ph.D.
		1330 - 1340	Cis P-tau is an Druggable Early Driver of Neurodegeneration Linking Blast or Impact Brain Injury to Chronic Traumatic Encephalopathy	Xiao Zhen Zhou, M.D.
		1340 - 1350	Elevated Exosomal Total and Phosphorylated Tau among Veterans with Chronic Repetitive Mild Traumatic Brain Injury; A Chronic Effects of Neurotrauma (CENC) Multi-Center Observational Study Interim Analysis	Kimbra Kenney, M.D.
		1350 - 1400	The Pacific Northwest Brain Donor Network: Military-Related TBI/CTE Neuropathology	Desiree Marshall, M.D.
		1400 - 1410	Lack of Evidence of Chronic Traumatic Encephalopathy Among Some Blast-Exposed Post-Deployed Service Members With Prominent Behavioral/Neurologic Symptomatology Who Commit Suicide	Daniel Perl, M.D.
		1410 - 1420	PET Imaging of Neurodegeneration with [18F]AV-1451 PET after Repetitive Traumatic Brain Injury	David Okonkwo, Ph.D.
		1420 - 1430	Exposure Standards Program: Neuroimaging Correlates of Repeated Low-Level Blast Exposure in Career Breachers	James Stone, Ph.D.
		1430 - 1500	Panel Discussion	COL Sidney Hinds, USA Moderator
Two Hour Session 1300 - 1500	Ocular Trauma Casualty Management Grand Rounds <i>Room - Tampa</i>	1300 - 1302	Introduction	Robert A. Mazzoli, M.D.
		1302 - 1310	The New USAF Cone Contrast Color Test (CCT-HD), A Paradigm Shift in the Ability to Accurately Test Human Color Vision	Steven Hadley, M.D.
		1310 - 1318	Retinal Ganglion Cell Neuroprotection Following Optic Nerve Trauma with Intranasal Delivery of ST266, an Amnion-derived Multipotent Progenitor Cell Secretome	Larry Brown, Sc.D.
		1318 - 1326	A Corticosteroid-Eluting Contact Lens For Ocular Inflammation	Amy Ross, M.S.
		1326 - 1334	Supersaturated Oxygen Emulsion for Topical Treatment of Ocular Trauma	Kathryn Pate, Ph.D.
		1334 - 1342	An in-vivo Model of Proliferative Vitreoretinopathy (PVR) by Intravitreal Injection of Cells from Human-derived PVR Membranes in Rabbits	Joseph Arboleda-Vasquez, M.D., Ph.D.



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Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1300 - 1500	Ocular Trauma Casualty Management Grand Rounds <i>Room - Tampa</i>	1342 - 1350	The DoD Joint Pathology Center (JPC)/ Vision Center of Excellence (VCE) Ocular Foreign Body Compositional Analysis Program	CPT Matthew M. Snider, USA
		1350 - 1358	Optic Nerve Regeneration in the Mouse is a Complex Trait Modulated by Multiple Genomic Loci	Eldon Geisert, Ph.D.
		1358 - 1406	Human Pluripotent Stem Cell-derived Three-dimensional Retinal Organoids Facilitate the Integration and Outgrowth of Retinal Ganglion Cells for Traumatic Optic Neuropathy	Jason S. Meyer, Ph.D.
		1406 - 1414	Grand Rounds Panel Introduction: Establishing an Ocular Casualty Care System: A Capabilities-based Model for Life, Limb, and Sight	Robert A. Mazzoli, M.D.
		1414 - 1500	Ocular Trauma Casualty Management Grand Rounds: Case Presentations and Panel Discussion	Robert A. Mazzoli, M.D. Moderator
Two Hour Session 1300 - 1500	Other Transaction Agreements: Accelerating the Transition of Technology into the Hands of the Warfighter <i>Room - Sun C123</i>	1300 - 1305	Introduction	James B. Phillips, Ph.D. Moderator
		1305 - 1315	Medical Technology Enterprise Consortium	William Howell, B.S.
		1315 - 1325	MTEC User Experience from Joint Evacuation & Transport [Training] System (JETS) to Today	David Thompson, M.S.
		1325 - 1335	Permanent Vascular Repair	COL David Saunders, USA
		1335 - 1345	Human Tissue Engineered Blood Vessels for Vascular Reconstruction in the Injured Warfighter	Ted Lithgow, Ph.D.
		1345 - 1355	MTEC Awardee Perspective	Ross Donaldson, MD, MPH
		1355 - 1420	Panel Discussion	All
		1420 - 1445	Panel Q&A	All
		1445 - 1500	Individual Q&A	All
Two Hour Session 1300 - 1500	What's New in Global Health Engagement? <i>Room - Tallahassee</i>	1300 - 1310	Welcome	Terry Rauch, Ph.D.
		1310 - 1320	R&D Lifecycle and Global Health Engagement	CAPT Joseph Cohn, USN
		1320 - 1335	Eighteen Liberian Lassa virus Whole Genome Samples Demonstrate Flaws in Current Diagnostics but Inform Development of Future Molecular Assays	CDR Andrew Letizia, USN
		1335 - 1350	Progress in the Development of Novel Anthelmintic Medications	Belinda Jackson-Thompson, Ph.D.
		1350 - 1405	Application of Phage Display for the Development of a Novel Antivenom Against Western Cottonmouth Snake	Yoon Hwang, Ph.D.
		1405 - 1420	Building Electronic Disease Surveillance Capacity in the Peruvian Navy with SAGES (Suite for Automated Global Electronic BioSurveillance)	Martina Siwek, Ph.D.
		1420 - 1435	Improving The Care Of Children Injured In Conflict Settings	Michael von Bertele, CB, OBE, MBBCh, FRCP
		1435 - 1500	Q&A	Col Rachele Paul-Kagiri, USAF
Two Hour Session 1300 - 1500	Health, Readiness & Performance System (HRAPS) <i>Room - Sarasota</i>	1300 - 1320	Health Readiness and Performance System (HRAPS) Overview	Alan Harner, M.S., MBA Paula Collins, Ph.D.
		1320 - 1340	Health Readiness and Performance System (HRAPS) Gap Analysis Study	Paula Collins, Ph.D.
		1340 - 1400	Wearables Integration Roadmap Strategy Across the DoD for Dismounted Service Members	Roy Vigneulle, Ph.D.



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Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1300 - 1500	Health, Readiness & Performance System (HRAPS) <i>Room - Sarasota</i>	1400 - 1420	Immersive Virtual Environments for Enhanced Assessment of Wearable Devices	Hrishikesh Rao, Ph.D.
		1420 - 1440	Development and Refinement of a Portable, Durable, Rugged Functional Near-infrared Spectroscopy (fNIRS) Device	Bethany Bracken, Ph.D.
		1440 - 1500	Q&A	
Two Hour Session 1530 - 1730	What's New in Infectious Disease Research in the Tropics? <i>Room - Tallahassee</i>	1530 - 1545	Tafenoquine for Malaria Prevention	Jeff Dow, Ph.D.
		1545 - 1600	PfSPZ Vaccine: A Whole Organism Malaria Vaccine for Protection of Military Personnel, Travelers, and Individuals in Malaria-Endemic Regions	CAPT Judith Epstein, USN
		1600 - 1615	The Joint Mobile Emerging Disease Intervention Clinical Capability (JMEDICC): A Mobile Clinical Trials Capability for Rare and Highly Infectious Pathogens	Saima Zaman, MPH
		1615 - 1630	Ex vivo Console of Human Organoids (ECHO) for Predicting Compound Toxicity and Developing Countermeasures for Toxic Agents	Thomas Shupe, Ph.D.
		1630 - 1645	Combatting Bacillary Dysentery: A Phase I Trial of Two Live Attenuated Shigella sonnei Vaccine Candidates	Malabi Venkatesan, Ph.D.
		1645 - 1700	Substantial Reduction in Traveler's Self-treatment of Diarrhea with Antibiotics and Loperamide after Receiving and/or Using a Novel Anti-diarrheal Product (DiaResQ®)	Mark Grabowsky, M.D.
		1700 - 1715	Phase 1 Dengue Vaccine Trial In Healthy Adults Exploring Heterologous Prime Boost Administration Strategies of Live and Inactivated Tetravalent Vaccines	LTC Richard Jarman, USA
		1715 - 1730	An Observational Trial of US Marines who Serve in Darwin Australia	Kevin Schully, Ph.D.
Two Hour Session 1530 - 1730	Nutritional Optimization of Reset & Recovery <i>Room - Sanibel</i>	1530 - 1550	The Short-Term Effects of a Commercial Pre-Workout Supplement on Resting Metabolic Rate and Hemodynamic Variables in Females and Males	Amy Carpenter, Dr.Ph.
		1550 - 1610	Impact of Nootropic Supplementation on Measures of Marksmanship Performance in Active Duty Soldiers	MAJ Nicholas Barringer, USA
		1610 - 1630	Longitudinal Assessment of Warfighter Vitamin D Supplementation	Mary S. McCarthy, Ph.D., R.N.
		1630 - 1650	Is Food Insecurity a Threat to National Security? Examining the Prevalence of Food Insecurity Among Our Nation's Warfighters	Brenda D. Bustillos, Dr.Ph., RDN, LD
		1650 - 1710	Soldiers Who Have Failed U.S. Army Body Composition Standards Report a Faster Eating Rate than Soldiers Who Have Not	Philip Karl, Ph.D.
		1710 - 1730	Baseline Dietary Intakes of Army Soldiers Prior to Go For Green® 2.0 Dining Facility Dietary Intervention	Catherine Champagne, Ph.D.



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Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1530 - 1730	Suicide In The Military: Surveillance, Prevention, & Intervention <i>Room - Sun D456</i>	1530 - 1540	Welcoming Remarks and Introductions	Larry Pruitt, Ph.D.
		1540 - 1600	Suicide Rates and Characteristics of Suicide Deaths in the Military: 2016 DoDSER Results	Jennifer Tucker, Ph.D.
		1600 - 1620	Suicide-Related Care Delivered in the Military Health System: Analyses of Diagnosed Suicide Attempts and Subsequent Follow-Up Care	Zachary Peters, MPH
		1620 - 1640	Predicting Suicidal Ideation and Behaviors with Brief Assessment Protocols	Peter Gutierrez, Ph.D.
		1640 - 1700	A Prospective Investigation of Factors Associated with Suicidal Ideation Severity and New-Onset Suicidal Behaviors Among High-Risk U.S. Military Service Members	Thomas Joiner, Ph.D.
		1700 - 1720	Caring Contacts via Text Message for Military Suicide Prevention: Results of a Randomized Controlled Trial with Active Duty Soldiers and Marines	Amanda Kerbrat, MSW, LICSW
		1720 - 1730	Q&A/Closing remarks	Entire Panel
Two Hour Session 1530 - 1730	Managing Physiological Episodes in Military Aviation <i>Room - Miami</i>	1530 - 1535	Introduction to Session	CAPT Joseph V. Cohn, USN
		1535 - 1549	Exposure Limits for Chemicals Encountered During Aircraft Operation	Lisa Sweeney, Ph.D.
		1549 - 1603	A Physiologically-Based Pharmacokinetic (PBPK) Model to Address Physiological Changes Associated with High-Performance Aircraft Flight	Tammie Covington, M.S.
		1603 - 1617	Detection of Hydrocarbons in the Gas Phase Using COTS Sensors for Monitoring of Breathing Air Quality	Michael Brothers, Ph.D.
		1617 - 1631	Characterization of Pilot Breathing Air During Ground Engine Runs	Christin Grabinski, Ph.D.
		1631 - 1645	Naval Jet Aviators' Experience with Symptoms Associated with Physiological Episodes In-flight, Post-flight, and on Unplanned Extended Missions	LCDR Brennan Cox, USN
		1645 - 1659	The Brain-based Hypoxia Signature: A Superior Predictor of Performance	Kara Blacker, Ph.D.
		1659 - 1713	Injectable tissue-like Microsensors for Continuous Monitoring of Hypoxia: Applications for Pilot Tracking During Flight	Natalie Wisniewski, Ph.D.
1713 - 1730	Questions	All Presenters		
Two Hour Session 1530 - 1730	Prevention of Musculoskeletal Injury in the Military <i>Room - Tampa</i>	1530 - 1550	Bone Anabolism During Basic Training is Greatest Among Female U.S. Army Soldiers with Lowest Volumetric Bone Mineral Density at Baseline	Kathryn Taylor, Ph.D.
		1550 - 1610	Functional Performance Testing to Assess Risk of Musculoskeletal Injury during Basic Training	Daniel Clifton, Ph.D.
		1610 - 1630	Patterns in Lower Extremity Stress Fracture Cases During the First 6 Months of U.S. Army Service	Julie Hughes, Ph.D.
		1630 - 1650	Functional Movement Characteristics of U.S. Navy Explosive Ordnance Disposal Technicians	Kathrine Haluch, B.S.
		1650 - 1710	Self-reported Injury Prevalence and its Relationship to Pain with Movement and Physical Performance Screening Tests	MAJ Mark Lester, USA
		1710 - 1730	Genetic Testing to Reduce Musculoskeletal Injuries in Elite Athletes and Special Operations Forces	Stuart Kim, Ph.D.



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Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1530 - 1730	Manufacturing Innovation <i>Room - Sun C123</i>	1530 - 1535	Introduction - Manufacturing Innovation	Adrienne Noe, Ph.D.
		1535 - 1545	Innovations in Innovation: National Museum of Health and Medicine Collecting to Document Directions in DoD Biomedical Research	David Shackelford
		1545 - 1555	Flexible Hybrid Electronics Ecosystem Innovation to Address Military Health and Readiness	Scott Miller, Ph.D.
		1555 - 1605	Intelligent Textile Systems for Monitoring Individual Health and Predicting Performance Decline	Michael Cushman, M.S.
		1605 - 1615	Leveraging Integrated Continuous Manufacturing (ICM) to Address Critical Issues in the US Military	Bayan Takizawa, Ph.D.
		1615 - 1625	SynFini: The Pursuit of a Universal Synthesizer	Jason White, Ph.D.
		1625 - 1635	On Demand Synthesis of Small Molecule Pharmaceuticals	Luke Rodgers, Ph.D.
		1635 - 1645	Integration of Machine Learning and Chemical Synthesis for Automatic Robotic Synthesis of Active Pharmaceutical Ingredients	Luke Rodgers, Ph.D.
		1645 - 1655	Disruptive Innovation for Battlefield Medicine: Manufacturing Biologics at the Point-of-Care	Govind Rao, Ph.D.
		1655 - 1705	Biofabrication Through 3D Printing of Plastics and Human Tissues	Joel Gaston, Ph.D.
		1705 - 1730		Q&A
Two Hour Session 1530 - 1730	Integrating 'Omics into the Warrior Care Toolbox of the Military Health System <i>Room - Naples</i>	1530 - 1547	Circulatory Metabolomic Changes Due to Military Deployment	Duncan Donohue, Ph.D.
		1547 - 1604	Multi-omic Platform for Threat Assessment and Mechanistic Countermeasure Development	William M. Old, Ph.D.
		1604 - 1621	High-throughput and Cost Effective Microbiome Analysis Using a Novel Microbial Detection Array	James Thissen, M.S.
		1621 - 1638	Does Blood Transfusion Preserve the Gut Microbiome (GM) After Trauma? A Prospective, Clinical Study in Severely Injured Patients	Susannah Nicholson, M.D.
		1638 - 1655	A Time Window-Platform Scheme Serves as a Stratification Strategy Tool in identification of Biomarker Trajectory-based Cohorts Following Trauma in Humans	Ashley Lamparello, M.D.
		1655 - 1712	An integrated TCGA Pan-Cancer Clinical Data Resource (TCGA-CDR) to Drive High-quality Survival Outcome Analytics	Jianfang Liu, M.S.
		1712 - 1730	Adipose Stem Cell Tissue Source is Associated with Differential Expression Profiles in Cellular mRNA and Exosomal miRNA	Lauren Mangum, Ph.D.



THURSDAY, 23 AUGUST 2018

Breakout Sessions

BREAKOUT SESSIONS - Thursday, 23 August 2018

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Three Hour Session 1000 - 1300	Research in Prolonged Field Care & Pre-Hospital Tactical Combat Casualty Care <i>Room - Sun C123</i>	1000 - 1015	Combat Casualty Care Wargaming in Dense Urban Environments	LTC David Johnston, USA
		1015 - 1030	Pre-Hospital, Hospital, and Forensic Pathologist Subject Matter Expert Findings to Improve Military Preventable Death Review Process: A Qualitative Study	Whitney Harrison, MPH
		1030 - 1045	Does First Responder Advanced Life Support Improve Outcomes in the Helicopter Transported Trauma Patient?	David Wampler, Ph.D.
		1045 - 1100	Novel Oropharyngeal Device Designed to Improve the Airway Status of a Conscious Casualty Under a Delayed Evacuation Scenario	Kalev Freeman, M.D., Ph.D.
		1100 - 1115	Do Low-Fidelity Airway Trainers Accurately Represent Human Morphometrics?	Megan Blackburn, Ph.D.
		1115 - 1130	"Houses of Brick or Mansions of Straw?" Gap Analysis of Animal-based Hemorrhage Control Research	Penny Reynolds, Ph.D.
		1130 - 1145	Indices of Organ Damage after Surviving Hemorrhage and Hypotensive Resuscitation	Carmen Hinojosa-Laborde, Ph.D.
		1145 - 1200	Fluid Resuscitation on Cardiac Mitochondrial Function in Severely Burned Swine	Tony Chao, Ph.D.
		1200 - 1215	Diagnosis of ARDS from Transcutaneous O2 Saturation Measurement in a Combat Relevant Model of Prolonged Field Care and Ground and High-altitude Evacuation	Andriy Batchinsky, M.D.
		1215 - 1230	Immediate and Prolonged Reduction of Soft-Tissue Antibiotic Levels in a Rat Model of Tourniquet-Induced Limb Ischemia	Lee Mangum, Ph.D.
		1230 - 1245	Normothermic Ex-Situ Limb Perfusion: A Protocol for Extended Limb Preservation	Vahe Fahradyan, M.D.
		1245 - 1300	Death the Final Frontier: Exploring the Competencies Necessary for a Medic to Confront Combat Mortality in Casualty Care	Ann Jeschke, Ph.D.
Two Hour Session 1000 - 1200	The Future of Medical Simulation in the Continuum of Care <i>Room - Miami</i>	1000 - 1005	Introduction	Darrin Frye, MPH
		1005 - 1015	Panel Introduction & Opening Statements	
		1015 - 1045	Q&A	Darrin Frye, MPH
		1045 - 1100	Determining the use of Hyper-realistic and Immersive Simulation Training to Illustrate Improved Team Performance across the Continuum of Care	Mitchell Dukovich, Ph.D.
		1115 - 1130	Research and Development of an Advanced Female Trauma Training System	Carol Wideman, M.S.
		1130 - 1145	Q&A	
		1145 - 1155	Summary	Panelists
		1155 - 1200	Conclusion	Darrin Frye, MPH



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Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1000 - 1200	Individual Environmental & Occupational Exposure Monitoring Solutions for Service Members <i>Room - Sanibel</i>	1000 - 1010	Introduction/Overview	LTC James McKnight, USA
		1010 - 1030	Medical Surveillance of War-Injured US Veterans with Retained Fragments: The Use of Urine Biomonitoring as a Non-Invasive Method to Assess Fragment-Related Metal Exposures	Joanna Gaitens, Ph.D., R.N.
		1030 - 1050	Three Approaches in the Development of a Universal Sampler/Dosimeter	Mitchell Rubenstein, Ph.D.
		1050 - 1110	Dry EEG Manifestations of Normobaric Hypoxia During Simulated Flight	LCDR Lee Sciariani, USN
		1110 - 1130	The Effect of Exposure to High Altitude and Heat on Speech Articulatory Dynamics	James Williamson, Ph.D.
		1130 - 1150	Enhancing Health Risk Assessment - The Individual Exposure Health Risk Profile (IEHRP)	Maj Alfredo Felipe, USAF
		1150 - 1200	Discussion	All
Two Hour Session 1000 - 1200	Improving Pre-Clinical Models of TBI <i>Room - Naples</i>	1000 - 1015	Delayed Hypoxemia Following Traumatic Brain Injury: A New Target for Neuroprotective Therapeutics	Stuart Friess, M.D.
		1015 - 1030	Translational Development of Cyclosporine as a Neuroprotective Drug – Porcine Efficacy and Human Pharmacokinetics	Michael Karlsson, M.D., Ph.D.
		1030 - 1045	The Effects of Repetitive or Single Blast Injury in a Gyrencephalic Animal Model	Sharon Juliano, Ph.D.
		1045 - 1100	Neuroprotective Effect of an ApoE Mimetic Peptide in a Gyrencephalic Blast Animal Model	Allen Yu, Ph.D.
		1100 - 1115	Visualizing and Quantifying the Kinematics of Blast Traumatic Brain Injury Pathology in a Preclinical Model	Maj Adam Willis, USAF
		1115 - 1130	Tunable and Transparent Polymer Cranial Tissue Simulants for Blast Induced Traumatic Brain Injury Studies	Michaelann Tartis, Ph.D.
		1130 - 1145	Stress Alters the Structure of the Intestinal Microbiota – Implications for Traumatic Brain Injury	Angus G. Scrimgeour, Ph.D.
		1145 - 1200	A Novel Advanced Resuscitation Fluid with Drag Reducing Polymer Enhances Cerebral Microcirculation and Tissue Oxygenation after Traumatic Brain Injury Complicated by Hemorrhagic Shock	Dennis Bragin, Ph.D.
Two Hour Session 1000 - 1200	Skin Regeneration & Scar Mitigation <i>Room - Tampa</i>	1000 - 1025	Converting Stump Skin to Palmo-plantar Skin to Enhance Prosthetic Use	Luis Garza, Ph.D.
		1025 - 1038	Spatial Frequency Domain Imaging; A Quantitative, Non-invasive Tool for in-vivo Monitoring of Burn Wound and Skin Graft Healing	Gordon Kennedy, Ph.D.
		1038 - 1051	Determination Of Adequate Debridement Of Burn Wounds Via Laser Speckle Imaging	Randy Stone II, Ph.D.
		1051 - 1104	Topical Delivery of a Focal Adhesion Kinase Inhibitor Results in Accelerated Healing and Decreased Scar Formation in a Large Animal Model	Geoffrey Gurtner, Ph.D.
		1104 - 1117	The First Preclinical Porcine Model to Study Facial Scar Contractures and their Mechanisms	Sashwati Roy, Ph.D.



THURSDAY, 23 AUGUST 2018

Breakout Sessions

Breakout Session Time	Topic Area	Presentation Time	Presentation Title	Presenter
Two Hour Session 1000 - 1200	Skin Regeneration & Scar Mitigation <i>Room - Tampa</i>	1117 - 1130	Acceleration of Wound Healing with PHD2- and miR-210-Targeting Oligonucleotides	Brian Johnston, M.D.
		1130 - 1143	Assessment of the First 30 Hours of Burn Progression in a Porcine Burn Model	Christine Kowalczewski, Ph.D.
		1143 - 1200	Plasma-Based Biomaterials Accelerate Wound Healing and Increase Angiogenesis	Susan Farabaugh, Ph.D.
Two Hour Session 1000 - 1200	Women's Military Health <i>Room - Tallahassee</i>	1000 - 1015	Uniformed Services University Women's Health Research Updates	Yvonne Maddox, Ph.D. Col Candy Wilson, USAF
		1015 - 1030	Women and War: An Interprofessional Curriculum to Support Mission Readiness	Mona Pearl Treyball, Ph.D., R.N.
		1030 - 1045	Army Sexual Harassment/Sexual Assault Response & Prevention (SHARP) Tiger Team: A Model for Prevention	Nancy Skopp, Ph.D.
		1045 - 1100	An Evaluation of Gender Differences in Postconcussion Symptoms and Mid-Term Quality of Life Following Combat-Related Traumatic Brain Injury	Mary Clouser, MPH, Ph.D.
		1100 - 1115	Gynecologic and Peritoneal Cancer Incidence in the U.S. Military Population	LCDR Steffanie Owens, USN
		1115 - 1130	Importance of Equal Access to Care in Mitigating Racial Disparities in Survival in Uterine Cancer Patients	Kathleen M. Darcy, Ph.D.
		1130 - 1145	The Hypertensive Pregnancy Disease Preeclampsia Causes Lingering Increase of Central Pulse Pressure and Neuronal Damage: How Can We Assess, Monitor, and Improve Military Service Member's Health the Suffered from this Disease?	Andrea I. Loewendorf
		1145 - 1200	Gestational Weight Gain Among Female Sailors and Pregnancy Outcomes from 2004-2014	Amanda (Hoeffken) Price, MPH
Two Hour Session 1000 - 1200	Regulatory Session with FDA & DoD <i>Room - Sun D456</i>	1000 - 1015	Introduction	Jean Hu-Primmer, M.S.
		1015 - 1035	Public Law 115-92	Emily Badraslioglu, MS, PMP, RAC
		1035 - 1105	Overview of FDA's Blood Research and Review	Nicole Verdun, M.D.
		1105 - 1135	News from FDA's Center for Devices and Radiological Health	Heather Agler, Ph.D.
		1135 - 1200	Q&A	Jean Hu-Primmer, M.S. Moderator

