

SYMPOSIUM OVERVIEW

Program Design & Goal

DSI's 5th Annual Operational Medicine Symposium will bring together medical professionals from across the U.S. military services, government healthcare agencies, academia, and industry to advance the practice of operational medicine, improve combat casualty care, and enhance warfighter performance. This year's Symposium aims to drive forward innovations, policies, practices, education, training, and research and development efforts to enable military medical operational readiness and ensure warfighters have access to high quality, safe, and effective critical care anytime, anywhere.

As the United States prepares for a future battlefield marked by a high-end, mass casualty fight, the Operational Medicine Symposium will explore the best ways to sustain the health and well-being of our warfighters and citizens. This year's event will highlight the research and development investments being made to pioneer medical solutions, efforts to sustain a medically ready force and train a ready medical force, and strategic perspectives on the requirements, tools, and resources needed to address the realities of a changing threat landscape and future battlefield. Speakers will also highlight the vitality of sustaining partnerships and alliances in preparing for and delivering prolonged care for patients and warfighters injured in large scale, distributed combat operations.

Attendees will have the unique opportunity to share their perspectives, ask questions, and discuss requirements, developments, and technological innovations needed to evolve military medicine for tomorrow's fight. This premier military medical event will provide a forum for medical experts, practitioners, and clinicians from across the military medical community to discuss how to maximize care for the wounded and injured, including at the point of injury, en-route, and in facility.

Operating Guidelines

DSI's Symposium directly supports DoD priorities by providing a conduit for officials to efficiently reach audiences outside of their respective offices that directly impact their department's mission success in an efficient expenditure of time. This Symposium will provide a forum to address internal and external initiatives, hear from partner organizations, disseminate vital capability requirements to industry, increase visibility within the larger community, and generally support their mission.

This Symposium is open and complimentary to all MHS, DoD, and Federal employees and is considered an educational and training forum. Industry and academia members are charged a fee of attendance.

This Symposium is CLOSED TO PRESS / NO RECORDINGS.

General Target Audience

U.S. Military Services, Government Healthcare Agencies, Academia, Medical Professionals, and Industry Solution Providers

Specific Topics to be Discussed

- Supporting the Joint Services to be a Medically-Ready Force and a Ready Medical Force
- Medical Requirements to Support Joint Force Operations in the INDOPACOM AOR
- Researching and Engineering Medical Solutions and Capabilities to Support Defense Health
- Equipping Medics to Provide Expeditionary, Tailored Medical Care to Save and Sustain Lives
- Driving Military Medical Innovation with USAMRDC's Medical Research and Development
- Pioneering Exceptional Military Medical Care in San Antonio

INFORMATION ON CME/CE CREDITS

***ALL CE SESSIONS WILL TAKE PLACE IN THE MAIN ROOM . PLEASE NOTE: ONLY AFTERNOON SESSIONS OFFER CME/CE CREDIT AND ARE INDICATED IN YELLOW.**

CME/CE Sessions are Jointly Provided by:



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Accreditation



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

In support of improving patient care, this activity has been planned and implemented by American Academy of CME, Inc. and Defense Strategies Institute. American Academy of CME, Inc. is Jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physicians

American Academy of CME, Inc., designates this live activity for a maximum of 6.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurse Practitioners and Nurses

American Academy of CME, Inc., designates this educational activity for 6.0 ANCC contact hours.

California

Provider approved by the California Board of Registered Nursing, Provider Number CEP16993 for 6.0 contact hours.

PAs and Other HCPs

Other members of the care team will receive a certificate of participation/completion.

Additional Information on CME/CE Accredited Sessions

For complete CME/CE activity information please visit: <https://www.operationalmed.com/continuing-education-credits>

Instructions on How to Receive CME/CE Credit

Please visit, <https://www.operationalmed.com/continuing-education-credits> for instructions on how to receive credit and certificates of participation for CME/CE sessions.

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7:00-8:00 *Registration and Light Breakfast Reception Open*

8:00-8:10 **Chairperson Opening Remarks: Presented by Leidos**

Donald Kosiak, MD (Confirmed)
Chief Medical Officer
Leidos

8:10-8:20 **Moderator Opening Remarks**

COL (Ret.) Ronald Poropatich, MD, MS (Confirmed)
Director, Center for Military Medicine Research
Professor of Medicine – Division of Pulmonary, Allergy, and Critical Care Medicine
University of Pittsburgh

8:20-8:45 **U.S. Army Reserve Highlight: Ensuring Ready and Trained Medical Forces**

- Championing the unique but critical role U.S. Army Reserve members play in ensuring overall force medical readiness and delivering effective, efficient medical care at the point of need
- Partnering with active duty counterparts and other stakeholders to foster training in realistic environments and drive continued improvements to education, logistics, and medical equipment
- Impact of Human portion of Multi Domain Operations environment for the USAR medical forces
- Large Scale Combat Operations and Multi Domain Operations environment considerations for primary Military Health System functional areas

BG Jeffrey McCarter, USA (Confirmed)
Commanding General
Medical Readiness and Training Command

8:45-9:30 **Guiding Research Investments in Military Health and Medicine to Enhance Warfighter Health and Readiness**

- Discovering new capabilities to improve medical care through research, development, test, and evaluation
- Responding to the needs of combatant commands, military services, and the Military Health System to deliver innovative medical solutions
- Synthesizing research to apply findings and turn them into practical/clinical knowledge for improved product development and policy

Sean Biggerstaff, PhD (Confirmed)
Acting Deputy Assistant Director, Research & Engineering
Defense Health Agency

9:30-9:45 **Reflections on Oxygen in 2023 and Beyond: Abundance or Scarcity?**

- Explore lessons learned regarding oxygen as a commodity during COVID-19 and recent natural or man-made disasters.
- Explore the risks to oxygen availability during future large-scale combat operations (LSCO) and multi-domain operations (MDO)

COL Kimberlie Bieber, USA (Ret), MS, RN, ACNP-BC, ANP-BC, CCNS, CCRN
Clinical Consultant, Thornhill Medical

9:45-10:45 **Networking Break & Exhibits**

10-Minute Tech Talks: Exhibit Hall Stage

ADS, Inc: 10:00-10:10 AM

Rapid Medical Procurement Methods for the DoD

Brad Anderson, Executive Vice President, Contracts and Projects

Tessonics: 10:20-10:30 AM

Tessonics Medical Systems Pipeline of Novel Solutions Addressing Traumatic Brain Injury Diagnostics for Field Application and Other Challenges of Operational Military Medicine

Roman Gr. Maev, President & CEO

Joseph Udzbinac, Chief Financial Officer

Jure Gelovani, Chief Medical Officer

10:45-11:30 **Delivering Technology and Medical Solutions to Support Army Medics, Soldiers, Veterans and Civilians**

- Championing experimentation, capability development, and modernization efforts to guide science and technology in support of the future force
- Designing Army medical doctrine and operational requirements to support the operational health of our fighting forces during competition and conserve fighting strength in conflict
- Facilitating partnerships to promote the Army Health System as a globally integrated component to support soldiers and the joint force in multi-domain, LSCO
- Training, educating, and inspiring medical personnel to provide prolonged field care, medevac operations, and medical re-supply to ensure survivability

MG Michael Talley, USA (Confirmed)

Commanding General

U.S. Army Medical Center of Excellence

11:30-12:15 Ensuring the Joint Force is Protected, Healthy, and Sustained

- Balancing the changing practice of medicine with the changing nature of war to remain ahead of tomorrow's challenges
- Operationalizing medicine and healthcare to enable joint force health protection and combatant command readiness
- Perspectives on the gap between current medical capability and operational readiness requirements
- Integrating new technologies, medical solutions, partnerships, and health care options to expand care at the point of injury, en-route, and at facility across the joint force

Maj Gen Paul Friedrichs, USAF, MD (Confirmed)

Joint Staff Surgeon
Joint Chiefs of Staff

12:15-12:30 The Future of Operational Medicine: Lessons From the Past

COL (Ret) Ron Moody, USA, MD

Chief Medical Officer
Accenture Federal Services

12:30-1:45 Luncheon Sponsored by General Dynamics Information Technology

GDIT

Location: Exhibit Hall

1:45-3:15

Preventing, Diagnosing, and Treating Military Infectious Diseases (CE Accredited Session)



Because non-combat injuries remain a major risk to combat effectiveness, warfighter health, and operational readiness, this panel will address the need to develop solutions to prevent, treat, and diagnose infectious disease. Infectious diseases are not limited or constrained by borders or nationality – only by vaccines and proper treatment. Future operational scenarios will require forces to deploy around the world at short notice to areas where infectious diseases are a substantial and immediate health risk. In addition, there is a risk of wound infection for injuries sustained on the battlefield. This panel will address solutions to prevent the spread of infectious diseases and deliver care for infections in theater and at medical health care facilities around the world.

Learning Objectives:

By the end of this panel, participants should be better able to:

- Compare different climates, environments, and regions where infectious diseases are prominent
- List which infectious diseases pose the greatest threat to U.S. assets and operations
- Identify, screen, and diagnose bacterial, parasitic, and viral infections
- Apply the proper medical treatments and solutions to treat bacterial, parasitic, and viral infection with limited resources and to minimize risk of secondary infection
- Integrate infection control practices for close living quarters, harsh and/or austere operating environments
- Detect bioterroristic infectious agents

Moderator:

- **CDR Jean-Paul Chretien, USN, MD, PhD**, Program Manager, DARPA (**Confirmed**)

Panelists:

- **COL Stuart Tyner, USA, PhD**, Director, Military Infectious Diseases Research Program (MIDRP) (**Confirmed**)
- **CDR Matthew Kasper, USN, PhD**, Chief, Global Emerging Infections Surveillance, Armed Forces Health Surveillance Division, DHA (**Confirmed**)
- **David Tribble, MD, DrPH**, Infectious Disease Clinical Research Program (IDCRP) Scientific Director, Uniformed Services University of the Health Sciences (USU) (**Confirmed**)

3:15-4:00 Networking Break & Exhibits

15-Minute Tech Talk: Exhibit Hall Stage

DHA Veterinary Service: 3:30-3:45 PM

Military Working Dog Operational Medicine

LTC Sarah Cooper, USA; Chief, Animal Medicine, DHA

4:00-5:30 Advancing Combat Casualty Care to Improve Trauma Readiness and Outcomes (CE Accredited Session)



This panel, led by the Defense Committees on Trauma, will focus on improving trauma readiness and outcomes. Experts on the panel will discuss The discussion will center on patient scenarios, how they are managed, and where there are gaps in future conflicts in large scale combat operations, under tyranny of distance and under doctrinal timelines. Panelists will discuss the importance of being able to deliver blood transfusions and stop hemorrhage at the point of injury to improve trauma patient outcomes. This panel will also address a key component of sustaining survivability in austere, degraded warfighting environments--delivering prolonged tactical combat casualty care.

Learning Objectives:

- **By the end of this panel, participants should be better able to:**
- Define best practices in combat casualty care with limited resources in austere environments
- Apply hemorrhage control and resuscitation at the point of injury
- Examine whether current medications, devices, and medical supplies meet warfighters and combat medics needs at the forward operating edge
- Formulate treatment plans based on injury severity, available resources, supplies, and location
- Facilitate medical evacuation operations

Moderator:

- **CAPT Matthew Tadlock, USN, MD**, Chair, Committee on Surgical Combat Casualty Care, Joint Trauma System **(Confirmed)**

Panelists:

- **CDR Shane Jensen, USN, MD**, Chair, Defense Committee on Trauma, Joint Trauma System **(Confirmed)**
- **HMCS Tyler Scarborough, USN**, 4th Reconnaissance Battalion, 4th MARDIV, Combatant Command Trauma System, Senior Enlisted Advisor **(Confirmed)**
- **LTC Eric Jacobson, USA, MD**, US Army Medical Corps **(Confirmed)**
- **MAJ Brandi Dupoux, USA, MSN, RN, CEN, ECCN**, Chief of Clinical Operations—Combat Paramedic Program, US Army Medical Center of Excellence **(Tentative Confirmed)**
- **COL Joseph Alderete, USA, MD**, Orthopaedic Oncology, Trauma and Adult Reconstruction, Brooke Army Medical Center **(Tentative Confirmed)**

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University of Pittsburgh

8:20-9:05 **Strengthening Army Medical Readiness to be Responsive, Relevant, and Reliable**

- Synchronizing medical efforts across the Army and strengthening relationships with allies and partners to support medical readiness
- Continually training and educating health care providers and integrating key capabilities and technological innovations at the speed of relevance
- Goals for enabling the Army mission to deploy, fight, and win decisively against adversaries

BG Darrin Cox, USA, MD (Confirmed)

Commanding General, Medical Readiness Command, West
Director, Small Market and Stand-Alone Military Medical Treatment Facility Organization, DHA

CSM Timothy Sprunger, USA (Confirmed)

Deputy Enlisted Corps Chief
Next MEDCOM CSM

9:05-9:50 **Medical Requirements to Support Joint Force Operations in the INDOPACOM AOR**

- Highlighting how the medical community can support INDOPACOM's mission priorities
- Strategic perspective on the threat of a high-end, mass casualty fight in the increasingly important Indo-Pacific region
- INDOPACOM priorities for improving warfighter health, performance, and operational capability to ensure sustained readiness
- Promoting interoperability across the joint force and with partners and allies to exercise multi-lateral combat and medical capabilities

CAPT Michael McGinnis, USN, MD (Confirmed)

Command Surgeon
USINDOPACOM

9:50-10:05 **Real-time Assessment and Personalized Instruction on Demand (R.A.P.I.D.) - TCCC Training In A Post Pandemic World**

- Define the concept of Micro-simulation training
- Micro-simulation training or remote scenario training can reinforce or renew the understanding and application of any process
- TCCC scenario training in a world of social distancing

Frank Karluk, MA, PMP, NRP

Account Executive, Medical Modeling and Simulation
DLH Corp

10:05-11:15 **Networking Break & Exhibits**

10-Minute Tech Talks: Exhibit Hall Stage

Tier1 Performance: 10:20-10:30AM

Patient Handoffs in Combat Casualty Care: Lessons Learned for Effective Training and Implementation

Teresa Evans, PhD, Director, Government Market

Camilla Knott, PhD, Director, Performance Research

Prytime Medical: 10:40-10:50AM

Optimizing REBOA for the Battlefield: Emerging Clinical Outcomes for Partial REBOA using pREBOA-PRO™

Patti Carlisle, PhD, Principal Scientist

11:15-12:15 Fireside Chat: Pioneering Exceptional Military Medical Care in San Antonio

This fireside chat will bring together the leaders from Brooke Army Medical Center, 59th Medical Wing, and San Antonio Market to discuss the research and development initiatives that are aimed to improve military medicine and health care in San Antonio and around the world. Brig Gen Ryder and BG Teyhen and will provide strategic perspective on the threats of a future battlefield, the challenges for providing medical care in operational environments, and the opportunities to advance modern military medicine. With this context, BG Teyhen and Brig Gen Ryder will discuss innovative practices, enhanced training, and new resources in Army and Air Force medicine and across the San Antonio Market to improve patient outcomes and maximize care at the point of injury, en-route, and at facility.

Moderator:

Brian Lein, MD, Assistant Director, Healthcare Administration, DHA **(Confirmed)**

Brig Gen Jeannine Ryder, USAF (Confirmed)

Commander
59th Medical Wing

BG Deydre Teyhen, USA, PhD (Confirmed)

Commanding General
Brooke Army Medical Center

12:15-12:30 Innovation at the Pace of Need

- Discuss LMI's Forge™, an agile and scalable innovation studio focused on product design, rapid prototyping, product management, and adoption

Jared Summers

Vice President, Chief Technology Officer, Defense Market
LMI

12:30-1:45 Lunch Sponsored by Mantech

ManTech
Securing the Future

Location: Exhibit Hall

1:45-3:15 **Optimizing Human Performance to Sustain Total Force Protection and Fitness (CE Accredited Session)**



This panel will highlight how force health protection plays a key role, now and in the future, to warfighter readiness. Joint force fitness and human performance are vital components of overall military readiness and combat power, which is a key priority for the defense health industry. To sustain warfighter health and performance and ensure the U.S. military is ready for large-scale combat operations, this panel will address ways to strengthen the physical, mental, nutritional, and social fitness of our warfighters to best prevent and protect against injuries. Experts from across the community will provide perspective on the importance of human performance optimization (HPO) and efforts to sustain the optimal health and performance of operational forces.

Learning Objectives:

By the end of this panel, participants will be better able to:

- Identify performance and health priorities of an operational community
- Assess the integration of wearables into the force for enhanced health, sleep, and performance monitoring
- Measure warfighter physical, mental, nutritional, and social levels before, during, and after deployment
- Recommend generalized treatment, exercise, rest, and nutrition plans for warfighter holistic health

Moderator:

CAPT J. Russell Linderman, USN, PhD, Deputy Director, Consortium for Health and Military Performance, USUHS (**Confirmed**)

Panelists:

Col Scott Sonnek, USAF, PhD, Medical Research Lead; Deputy Chief, Airman Biosciences Division, 711th Human Performance Wing, AFRL (**Confirmed**)

LTC Brenda Bustillos, USA, DrPH, MS, RDN, Command Dietitian, US Army Training and Doctrine Command, Center for Initial Military Training (**Confirmed**)

Brian McGuire, ATC, CSCS, Deputy Director, Human Performance Branch, Marine Corps Training and Education Command (**Confirmed**)

Jason Jadgchew, ATC, CSCS, Human Performance Program Manager, Naval Special Warfare Command (**Confirmed**)

3:15-3:45 **Networking Break and Exhibits**

3:45-4:30 **Supporting Air Force Medical Readiness to Protect and Sustain Warfighters in the Future Fight (CE Accredited Session)**



Learning Objectives:

By the end of this session, participants should be better able to:

- Develop plans, programs, and procedures to support the Air Force in medical service missions worldwide
- Establish priorities for the future of the Air Force Medical Service and understand service challenges of preparing Airmen/women and Guardians to extend survivability on the battlefield
- Foster innovation in medical training, optimize human performance, and improve medical supply chains
- Deliver medical resources, training, and technology to ensure exceptional care at the point of injury, en-route, and at facility

Brig Gen Thomas Harrell, USAF, MD (Confirmed)

Commander

Air Force Medical Readiness Agency

4:30-5:15 **Transforming Healthcare and Promoting Data Sharing with Interoperable Medical IT Capabilities (CE Accredited Session)**



Learning Objectives:

By the end of this session, participants should be better able to:

- Access, manage, edit, and verify patient electronic health records at point of injury, en-route, and at facility
- Promote data sharing through a modernized electronic health record in order to treat patients with more personalized, individualized care
- Input verified, relevant, understandable data into electronic health records to support the delivery of operational medicine
- Evaluate feasibility of using electronic records and medical technology with challenges in SWaP, connectivity, and security

Holly Joers, SES (Confirmed)

Program Executive Officer

PEO Defense Healthcare Management Systems (PEO DHMS)

5:15 **End of Symposium**

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Questions?

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