UNIFORMED SERVICES UNIVERSITY

of the Health sciences

CENTER FOR GLOBAL HEALTH ENGAGEMENT

ANNUAL REPORT **2018**



Uniformed Services University

2018 Highlights



805 military personnel trained

Fundamentals of Global Health Engagement courses 580 students

Global Health Strategies for Security course 25 students

Military Medical
Humanitarian Assistance
courses
200 students

Uniformed Services
University courses

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Countries Engaged in support of GHE activities

Australia Cameroon China Fiji Indonesia Italy Germany Ghana Jordan Korea Liberia Nepal Senegal Netherlands Rwanda Thailand UAE UK Spain Uganda **Uzbekistan**





CGHE, formally established in 2016, operates in accordance with the Uniformed Services
University of the Health Sciences (USU) 2017-2021 Strategic Framework
and provides support across USU's three mission domains: education and training,
research and scholarship, and leadership and service, all while striving to enhance
Joint Force readiness.

CGHE provides a DoD GHE hub for:



LETTER FROM THE DIRECTOR



2018 marked the CGHE's second full year as a well-established center within USU. We moved from defining to refining our mission and zeroed in on key deliverables for those we serve in the defense health community. Most importantly, we have made strides in a number of significant initiatives as outlined in our strategic plan and in line with USU's leadership.

Internally, CGHE modified its organizational structure this year to focus on key center capacities, such as assessment, monitoring and evaluation (AME), GHE Research Initiative management, training and professional development (TPD), and Programs and Joint Force Support (PJFS).

We also brought together our cross-cutting support functions into a new Center Operations Division. Through this division's work, CGHE has

streamlined several internal and external processes to improve accountability, compliance, efficiency, and knowledge sharing, which included more than 200 requests for assistance and information spanning across all of the geographic Combatant Commands (CCMDs), the services, multiple DoD agencies, including the Office of the Joint Staff Surgeon and the Defense Health Agency (DHA). We continue to work on the future of CGHE and the DoD GHE enterprise to ensure continuity of training, guidance, and support for our uniformed service members.

It has been a dynamic year at CGHE. We began 2018 with 30 personnel and finished the year with 38, expanding our pool of expertise and skills and allowing for more effective operationalization of our mission and vision. Whether it is through our exportable and customizable DoD GHE training programs or our ability to implement complex, multi-year programs, CGHE continued to provide steady support to the CCMDs to enable effective DoD GHE activities in support of strategic objectives. Examples of our support include execution of the medical component of the African Peacekeeping Rapid Response Partnership (APRRP) Program at the request of U.S. Africa Command and conduction of prospective and retrospective evaluations in support of sustained DoD programs, such as the Defense HIV/AIDS Prevention Program's efforts in Senegal.

As we reflect on CGHE's activities over the course of 2018, we are reminded of several successes and are, perhaps more importantly, energized for the future. For those of you who have participated in our programs, taught in our courses, or guided us with tireless energy, we thank you. On behalf of the entire staff of the CGHE, we look forward to continue working with you all in 2019.

Danny Shiau, MD, MPH, CAPT, MC, USN

Danny Suare

Director, USU CGHE



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38
Personnel
9 Military
3 Government
Civilians
26 Contractors

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Liaison to USCENTCOM

TRAINING AND PROFESSIONAL DEVELOPMENT

Fundamentals of Global Health Engagement (FOGHE) Courses

CGHE successfully delivered 14 FOGHE courses to over 580 Military Health System (MHS) professionals in 2018. FOGHE is an awareness-level course designed to prepare MHS professionals to better conduct GHE activities and touches the largest number of MHS professionals of any CGHE program to date, across CCMDs and the services. Recognizing the dynamic nature of the DoD GHE field, CGHE engages in continuous improvement of its courses. In 2018, CGHE began an update of the FOGHE course in order to ensure full alignment with DoD Instruction 2000.30 on GHE Activities.

Global Health Strategies for Security (GHSS) Course

The annual GHSS course, held in April 2018, was co-hosted by the U.S. Agency for International Development (USAID) at its Washington Learning Center and included 25 participants. GHSS is a graduate-level course designed for field grade officers assigned to CCMDs to develop an in-depth understanding of DoD GHE, outline civil and military considerations at the nexus of global health and security, and foster a whole-of-government approach to strengthening USG global health activities. The two-week, 100-hour course included lectures and discussions facilitated by representatives from the services, the DoD GHE community, the USG interagency and non-governmental organizations.

Dates	Requesting Unit	Location
January	Navy Environmental and Preventive Medicine Unit 5 (NEPMU-5)	San Diego, CA
February	Regional Health Command - Pacific	Honolulu, HI
March	Pacific Partnership 2018 / U.S. Pacific Fleet	USNS Mercy
March	Uniformed Services University (USU)	Bethesda, MD
May	Naval Aerospace Medical Institute	Pensacola, FL
June	NEPMU-5	San Diego, CA
July	USU School of Medicine	Bethesda, MD
August	NEPMU-2	Norfolk, VA
August	XVIII Airborne Corps	Fort Bragg, NC
August	US Naval Hospital, Camp Pendleton	Camp Pendleton, CA
September	NEPMU-7	Rota, Spain
October	U.S. Army-Baylor MBA/MHA Program	San Antonio, TX
November	U.S. Army Public Health Command - Atlantic	Fort Meade, MD
December	Defense Health Agency	Falls Church, VA

In 2018, CGHE continued to provide training for personnel within the DoD GHE enterprise as well as among the US Government (USG) interagency and international partners to promote greater understanding of DoD GHE.

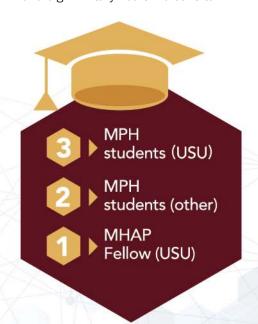


Military Medical Humanitarian Assistance Course (MMHAC)

CGHE provided support to eight MMHACs in 2018, training over 200 students in the fundamentals of direct patient care in humanitarian missions. This two-day course is taught at eight sites nationwide and provides health care professionals with tools and skills in the management of vulnerable patient populations, especially infants and children, in austere disaster and crisis situations.

USU Summer Operational Experience (SOE)

SOE is an annual two-week program for secondyear USU military medical students that provides an orientation to DoD GHE and exposure to key DoD, interagency and non-governmental stakeholders. In 2018, SOE participants attended a FOGHE course and USAID's Joint Humanitarian Operations Course. They also traveled to Johns Hopkins Bloomberg School of Public Health, Relief International headquarters, the Pentagon and the DHA. Highlights included discussions with Joint Staff Surgeon, RADM Colin Chinn, and a panel of five foreign military health liaisons to DHA.



USU Military Contingency Medicine (MCM) Course

CGHE supported the USU School of Medicine's Department of Military and Emergency Medicine by facilitating the DoD GHE components of USU's annual MCM course and its field exercise, Operation Bushmaster. MCM and Bushmaster participants include USU fourth-year medical students, USU Graduate School of Nursing students as well as several international participants. The CGHE-led training activity provided more than 200 participants with exposure to DoD GHE principles and practices and a simulated experience of working with partner nation personnel to execute a DoD GHE scenario. CGHE also supported distinguished foreign visitor observers; this year the Joint Staff Surgeon and CGHE escorted two senior leaders from Taiwan's National Defense Medical Center School of Nursing as they viewed many elements of Operation Bushmaster over two days.

USU Preventive Medicine and Biostatistics (PMB) Department Courses

CGHE supported the USU PMB Department by providing the Health Context Analysis (HCA) course, launching a new Joint Health Operations course, and supporting other PMB global health courses. The HCA course requires students to develop country packets, which include key information about the health context of the assigned country. These HCA country packets are archived at CGHE and made available to MHS personnel conducting DoD GHE activities.

USU's Graduate Certificate in Global Health and GHE Distance Learning Program

Within USU's Distance Learning program, CGHE offered two courses: DoD GHE and HCA. This year these courses reached 90 participants, including members of the services and the U.S. Public Health Service spread across five continents.

JOINT FORCE SUPPORT & STRATEGIC PARTNERSHIP

Support to the Office of the Joint Staff Surgeon (OJSS):

CGHE provides support to OJSS via a part-time liaison position meant to assist with institutionalizing DoD GHE via joint processes and procedures. The OJSS liaison provides support by facilitating linkages with DoD GHE stakeholders to include the CCMDs, services, the Office of the Secretary of Defense for Health Affairs and other agencies through Joint Staff channels, as well as directly supporting the launch of the OJSS-led DoD GHE Community of Interest (GHE COI). The purpose of the GHE COI is to strengthen communication and collaboration between multiple primary GHE stakeholders, with a focus on the CCMDs. The GHE COI allows OJSS greater ability to represent and discuss DoD GHE equities across the CCMDs with the wider community.

Support to the Office of the Assistant Secretary of Defense for Health Affairs (OASD(HA)):

Global Health Security Agenda (GHSA)

CGHE supported the DoD's involvement in the GHSA by contributing to the development of a defense sector panel at the GHSA Ministerial Meeting in Bali, Indonesia in November 2018. The purpose of the event was to increase the audience's understanding of the role of the defense sector in global health security, furthering defense sector engagement in GHSA to enable a truly multisectoral approach across member countries. Panel speakers included U.S. Indo-Pacific Command (USINDOPACOM) Command Surgeon, RADM Louis Tripoli, Deputy Assistant Secretary of Defense for Countering Weapons of Mass Destruction Mr. Derek

Maurer, Major General Ben Yura Rimba, surgeon general of the Indonesian Armed Forces, and Lt. Col. Laurette Mangouka of the Armed Forces of Gabon and executive secretary of the African Partner Outbreak Response Alliance (APORA).

United Kingdom (UK) Medical Support Operations Conference

CGHE participated in the annual Medical Support Operations Conference, sponsored by the UK Defense Medical Department and hosted by their surgeon general, Major General Martin CM Bricknell. Acting Assistant Secretary of Defense for Health Affairs Mr. Thomas McCaffery led the U.S. delegation and gave a morning keynote focused on GHSA. CGHE provided an overview of U.S. DoD GHE, including policies relevant to DoD GHE and examples of related activities.

Joint GHE Handbook

CGHE provided technical advisory support to the development of a Joint GHE Handbook, an effort that continues into 2019. A DoD GHE Capabilities-Based Assessment (CBA) identified the need for a manual for DoD GHE professionals, which was then included in the GHE DOTmLPF-P Change Recommendation (DCR). The Joint GHE Handbook will align with CGHE TPD courses, highlighting key considerations when planning, preparing, executing, and evaluating DoD GHE activities.

Playbooks Initiative

CGHE was granted Defense Health Program (DHP) Research, Development, Test, and Evaluation (RDT&E) funding to launch research and development of operational tools to support DoD GHE programs, focused on specific health functional areas. In late 2018, CGHE socialized the Playbooks Initiative with

In 2018, CGHE provided technical advisory support across the DoD GHE enterprise to assist with institutionalizing DoD GHE via joint processes and procedures and socializing DoD GHE concepts in multiple forums.



CCMDs and the broader DoD GHE enterprise via multiple forums, including the annual Society of Federal Health Professionals (AMSUS) meeting in November. The Playbooks Initiative will include gathering of existing DoD GHE resources, such as assessment tools, engagement guides and curricula, to be made available to the enterprise. Research efforts will analyze how DoD GHE programs can be better planned, prepared, executed, and evaluated to achieve intended outcomes, and will be conducted in the setting of real-world DoD GHE activities.

Other Support:

Asia Pacific Military Health Exchange (APMHE)

In support of the USINDOPACOM Surgeon's office, CGHE assisted with the execution of APMHE 2018 in Xi'an, China. Approximately 570 participants from 26 nations in the Indo-Asia-Pacific region and three international organizations attended the event, themed "Challenges and Solutions: Strengthening Global Health." CGHE assisted the USINDOPACOM surgeon's staff by managing the U.S. abstract submission and selection process and by awarding continuing medical/nursing education credit to all U.S. participants. CGHE also handled security requirements and provided logistical support as required.

African Partner Outbreak Response Alliance (APORA)

APORA is a USAFRICOM Command Surgeon initiative that began after the Ebola Virus Disease outbreak in 2014-2015 in order to establish a forum for medical military leaders to discuss ways to support civilian authorities during a disease outbreak response. CGHE supported U.S. Air Forces Africa (AFAF), executive agent of APORA, for two events: APORA V Conference in Yaounde, Cameroon, in June 2018, and APORA VI Conference in Monrovia, Liberia, in November 2018. For APORA V, which was attended by over 145 participants from 21 African partner nations, CGHE developed and executed a tabletop exercise (TTX) with the theme of "Discerning and Communicating Risk. The TTX was positively received by the APORA leadership, USAFRICOM, AFAF, and conference participants. For APORA VI, CGHE facilitated breakout sessions using a military-based outbreak response scenario to allow participants to address issues from a military perspective, while keeping interagency and civilian partners in mind, using the GHSA Joint External Evaluation framework.



PROGRAMS

African Peacekeeping Rapid Response Partnership (APRRP)

On behalf of USAFRICOM, CGHE manages the medical component of APRRP, a U.S. Department of State (DoS)-funded program that builds the capacity of African militaries to rapidly deploy peacekeepers. The medical component of APRRP assists nations in achieving readiness for deployment of a United Nations (UN) Level 2 Hospital (L2H) and associated capabilities. With guidance from DoS and USAFRICOM, CGHE implements training courses on a variety of topic areas, including nursing, equipment maintenance, field sanitation, medical logistics, patient movement, and trauma life support. APRRP courses are tailored to the needs of each country and align with the goals of the UN Peacekeeping Capability Readiness System. CGHE has supported the medical components of APRRP in

Rwanda and Uganda since 2016 and is in the early stages of engagement with Ghana and Senegal.

The CGHE team delivers training courses based on the train-the-trainer (ToT) concept, whereby U.S. military personnel from all service branches provide instruction to selected partner nation military members. Students are instructed via didactic sections along with handson practice at coordinated skills stations and some are then selected to receive ToT courses based on their demonstrated potential for teaching others. These students are then prepared to instruct and facilitate a full course iteration, which allows partner militaries to build their instructor pool using local competencies, thereby demonstrating their capability to institutionalize their courses by independently building and sustaining an instructor cadre and training program.

Republic of Rwanda

What	When	Who
Trauma Nursing Course	January and February 2018	16 members of the Rwanda Defence Force (RDF); seven RDF instructor candidates; RDF ToT instructors then taught 12 new RDF medical personnel
Field Sanitation Course	March and October 2018	15 RDF members during the first iteration; 24 RDF members during the second iteration
Clinical Ultrasound Course	June and December 2018	17 RDF members and civilian doctors at the Medical Modeling and Simulation Center (MMSC) during the first iteration; 14 personnel at the MMSC during the second

At the request of CCMDs and other DoD GHE stakeholders, CGHE supports program/project management and coordination of several DoD GHE initiatives across all geographic CCMD areas of responsibility (AORs).



Republic of Uganda

What	When	Who
Tactical Combat Casualty Care (TCCC) Course	April 2018	32 members of the Uganda People's Defence Force (UPDF); 11 ToT candidates then taught the course to 21 UPDF members
Trauma Nursing Course	August 2018	10 nurses from the UPDF in the Allied Health and Nursing School; 5 ToT candidates then taught 9 new UPDF nurses

Republics of Ghana and Senegal

The medical efforts in Ghana and Senegal were largely centered on the shaping of the capability package which outlines the courses that would be delivered to build a specific medical capability. It also included refinement of the UN L2H, identification of storage locations for the deployable and training L2H packages, and identification of an APRRP Medical training facility, inclusive of a space for a didactic classroom and medical modeling and simulation center.

Collaboration with the Defense Institute for Medical Operations (DIMO)

CGHE, in collaboration with DIMO, developed a new Peacekeeping Operations Medical Planner's Course in 2018. As part of building a collaborative partnership with DIMO, CGHE's APRRP team hosted an extensive two-day curriculum review during which course materials were greatly enhanced, leveraging the combined subject matter expertise of both entities.

Defense Threat Reduction Agency (DTRA) – Biological Threat Reduction Program (BTRP)

On behalf of DTRA, CGHE has played a role in the establishment, development, and implementation of Cooperative Biological Engagement Program activities since 2010. Supporting the program now known as BTRP, CGHE facilitates DTRA activities that enhance biosafety, biosecurity and biosurveillance in Jordan, Uzbekistan, and South Korea, with planned expansion to support regional activities in the U.S. Central Command (USCENTCOM), USAFRICOM, and USINDOPACOM AORs.

Hashemite Kingdom of Jordan

In 2018, CGHE participated in eight engagements to support the planning and implementation of multi-year activities in partnership with Jordanian government entities and universities involved in biorisk management and biosurveillance.

When	What	Who
February 2018	International Health Regulations workshop to discuss the adoption of potential public health legislation	Lebanon, Jordan, Iraq, Turkey
February and March 2018	Technical training & coordination for Rapid Pathogen Detection and Analysis	Jordanian Ministry of Health (MoH), Ministry of Agriculture (MoA), Royal Medical Services (RMS), Jordan University of Science and Technology (JUST)
April 2018	Discussion with World Health Organization (WHO) on developing template for evidence-based public health legislation in the region	Jordanian ministerial leadership <mark>, W</mark> HO
July 2018	Technical training & coordination for Rapid Pathogen Detection and Analysis II	Jordanian MoH, MoA, RMS, and JUST
	Kick-off collaborative biorisk management curriculum development	University of Jordan - Stem Cell Therapy Center
August 2018	FY19 planning meeting	Jordanian Armed Forces
	Brucellosis research project kickoff	Jordanian MoH, MoA, RMS, and Civil Defense Directorate
	Electronic Integrated Disease Surveillance System stakeholder meeting	Jordanian MoA, WHO, World Organization for Animal Health (OIE)
September 2018	Foundational Biorisk Management Training evaluation	Jordanian MoH, MoA, RMS, JUST, and King Abdullah University Hospital
November 2018	One Health Training/Workshop	Jordanian MoH, MoA, RMS, and Civil Defense Directorate
December 2018	National TTX planning meeting and grant writing workshop	Jordanian MoH, MoA, JUST, RMS, University of Jordan, and Mutah University

Republic of Uzbekistan

CGHE continues to support DTRA in the development of a field surveillance capability for especially dangerous pathogens (EDPs) in the Republic of Uzbekistan's Aral Sea Region. In 2018, CGHE engaged with representatives of Uzbekistan government agencies responsible for detecting EDPs in human

and animal populations in collaboration with the Uzbekistan MoH and State Veterinary Committee. During two trips to Uzbekistan and one meeting with Uzbekistan representation in the U.S., CGHE conducted collaborative background research and a needs assessment to identify the landscape for future engagement and designed a Mobile Field Surveillance System (MFSS) concept to be deployed between 2019

and 2021. The MFSS will be structured to enhance field sampling, collection and analysis, transport of hazardous samples, and detection, diagnosis, and reporting. Plans are underway to shape training modules and procure the equipment and supplies necessary.

Republic of Korea

CGHE participated in two engagements in the Republic of Korea (RoK) to begin information-sharing and enhance interaction with RoK military and civilian

public health/medical personnel on biosurveillance-related topics and challenges. DTRA-sponsored activities included a Chemical, Biological, Radiological, Nuclear and Explosive subject matter expert exchange at the Armed Forces Medical College Hospital, and a biosurveillance side session at the US Army 65th Medical Brigade's 38th Parallel Healthcare Symposium. RoK representatives from both civilian and military institutions participated in valuable discussions about their biosurveillance strategies, including presenting a case study on RoK's response to Middle East Respiratory Syndrome.

Regional Efforts

JSCENTCOM AOR USAFRICOM AOR

Regional activity implementation slated to commence in mid-2019. Activity will include engagements with six Gulf Cooperation Council member states to ultimately help improve country-level and regional resilience to pathogens of security concern.

Regional activity implementation slated to commence in mid-2019. The program will focus on enhancing biosurveillance capacities and networks in East Africa and empower Africa CDC's East Africa Regional Collaborating Centre (RCC) to take the lead.

CGHE will continue to provide coordination among DTRA and implementing partners, as well as develop and execute a focused program evaluation that will span the course of the effort to help DTRA and the Project Team understand mechanisms for, and progress towards regional biorisk management and biosurveillance collaboration and coordination.

CGHE has thus far supported DTRA in concept development and will continue to shape Assessment, Monitoring and Evaluation activities to complement future activities in both AORs.

Global Emerging Infections Surveillance (GEIS) CCMD Disease Surveillance Coordination Project

At the request of Geographic CCMD Surgeons, GEIS launched an effort in 2018 to conduct regionally focused infectious disease surveillance workshops to coordinate infectious disease surveillance activities among DoD and USG agencies and to identify and fill surveillance gaps in support of geographic CCMD force health protection (FHP) decision making and security cooperation planning. CGHE supported the GEIS program by facilitating Disease Surveillance Strategic Planning Workshops at each geographic CCMD, which included representatives from the CCMD, GEIS, service components, the Infectious Disease Clinical Research

Program, regional service laboratories, DTRA/BTRP, Centers for Disease Control and Prevention (CDC) and others. These workshops resulted in prioritization of pathogens, countries, and regions for infectious disease surveillance, identification of surveillance gaps, and determination of DoD and/or USG equities that could be leveraged to fill these gaps. CGHE then captured this information in regionally focused infectious disease coordination reports for each geographic CCMD. CGHE and GEIS jointly briefed on the progress of the project at the Joint Staff Surgeon's Joint Health Summit in summer 2018.

ASSESSMENT, MONITORING & EVALUATION



Improving Process and Coordination in Theater (IMPACT)

The purpose of the IMPACT study is to utilize AME research and methods to support the strategic and operational goals as outlined by the CCMDs Theater Campaign Plans and Theater Security Cooperation Plans (TSCP). The aim is to better understand facilitators and barriers to effectiveness in DoD GHE activities and help CCMDs with the mandated integration of AME per the DoD Instruction 5132.14: AME Policy for the Security Cooperation Enterprise. In 2018, CGHE laid the foundation for using systemic inquiry to conduct a series of evaluation case studies designed to support particular DoD GHE and TSCP projects and programs.

IMPACT has begun to and will continue integrating evaluative methods and activities into the following evaluation projects:

- Testing and refinement of a Theory of Change (TOC) to assess the contributions of DoD-led vector control initiatives towards systemic public health capacity building in the Solomon Islands
- Evaluation of institutional change outcomes associated with two recurring DoD-supported Africa Malaria Task Force symposia on vector control and surveillance capabilities in eight countries throughout the African continent
- Capacity-based network analysis to inform future health security partnerships with Fiji National University
- Formative assessment of DoD-supported health education capacity building and its role in increasing effective rehabilitation practice for veterans in Ukraine

CGHE aims to build assessment, monitoring, and evaluation (AME) capacity within the DoD GHE enterprise in accordance with CBA findings and DCR recommendations. These efforts include developing AME tools and methodologies to incorporate AME at all phases of DoD GHE activities. Additionally, CGHE offers AME support to the CCMDs and other DoD GHE stakeholders at the strategic, operational, and tactical levels. This includes delivering assessments to determine DoD GHE effectiveness based on stakeholders' goals and objectives, as well as developing AME curricula, courses, and learning tools for use at USU, War Colleges, and CCMDs.



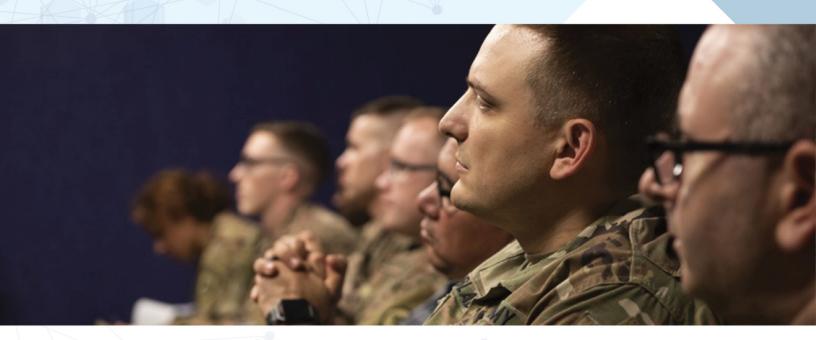
Department of Defense HIV/AIDs Program (DHAPP)

CGHE continues to be engaged in a multi-year evaluation of the DHAPP program, mostly centered on the program's engagement with Senegal. CGHE has worked toward finalizing a Senegal Retrospective Report, which evaluated DHAPP's 18-year involvement with the country's military, the impact on Senegal's counter-HIV/AIDS efforts, and the resulting ability to deploy ready military forces. CGHE also prepared a report which retrospectively evaluates Senegal's capacity to deploy peacekeepers into the USAFRICOM AOR, partially as a function of its forces' readiness and good HIV/AIDS preventive health.

United Arab Emirates (UAE) Trauma System

CGHE is supporting USCENTCOM in its collaboration with the UAE to develop a trauma system, which will be based at the Sheikh Shakbout Medical City complex in Abu Dhabi. CGHE is supporting the initiative by developing a three-pronged integrated AME plan that will cater to the various stakeholders involved in this project.

RESEARCH



Global Health Engagement Research Initiative (GHERI)

CGHE manages the Global Health Engagement Research Initiative (GHERI), which is funded through DHP RDT&E with guidance from the OASD(HA) and the DHA, Research & Development Directorate (J-9). GHERI focuses on research related to operational efforts and advanced technology development efforts that meet the needs of the Joint Force in either improving the understanding and execution of DoD GHE activities or utilizing DoD health research activities to engage a partner nation in support of CCMD objectives. The selection process involves a rigorous scientific and programmatic review with direct input from CCMDs and with Joint Staff oversight. Since 2016, the GHERI has supported seven active research projects and anticipates funding ten additional projects in the first half of 2019.

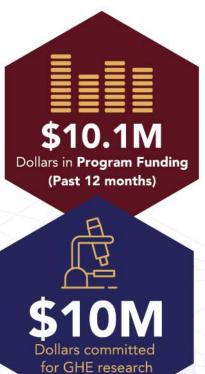
Military Health System Research Symposium (MHSRS) Breakout Session

In August 2018, CGHE led the GHE breakout track at MHSRS. The session was opened by the Acting Deputy Assistant Secretary of Defense for Health Readiness, Policy and Oversight (HRP&O), Dr. Terry Rauch, followed by an overview of the research and development lifecycle by the Chief of Research Program Administration Division at DHA J-9, CAPT Joseph Cohn, and various presentations. Topics included:

- Lassa virus in Liberia
- Progress in the development of novel anthelmintic medications
- Snake antivenin
- Electronic disease surveillance capacity within the Peruvian Navy
- Child care in conflict settings

In addition to the breakout session, 16 posters were also presented under the DoD GHE banner. Both sessions were well received and CGHE has already begun planning for the 2019 MHSRS GHE Breakout: "What's New in GHE Research?"





PUBLICATIONS

Erickson EA, Engel LS, Christenbury K, Weems L, Schwartz EG and Rusiecki JA. "Environmental Heat Exposure and Heat-Related Symptoms in United States Coast Guard Deepwater Horizon Disaster Responders." Disaster Medicine and Public Health Preparedness. November 2018.

Ramsey S. "Bridging the Gap between Environmental Health and Environmental Security through Global Health Engagement." Poster presented at the Asia-Pacific Military Health Exchange. September 2018.

M. Morton Hamer, Reed P, Greulich J, Beadling C. "Enhancing Global Health Security: US Africa Command's Disaster Preparedness Program." Disaster Medicine and Public Health Preparedness. March 2018.

Reed P, et al. "Evidence-Based Guidelines for Supportive Care of Patients with Ebola Virus Disease." The Lancet. February 2018.









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