

ANNUAL REPORT 2019

UNIFORMED SERVICES UNIVERSITY
of the Health Sciences

CENTER FOR GLOBAL HEALTH
ENGAGEMENT



CGHE



Uniformed
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University

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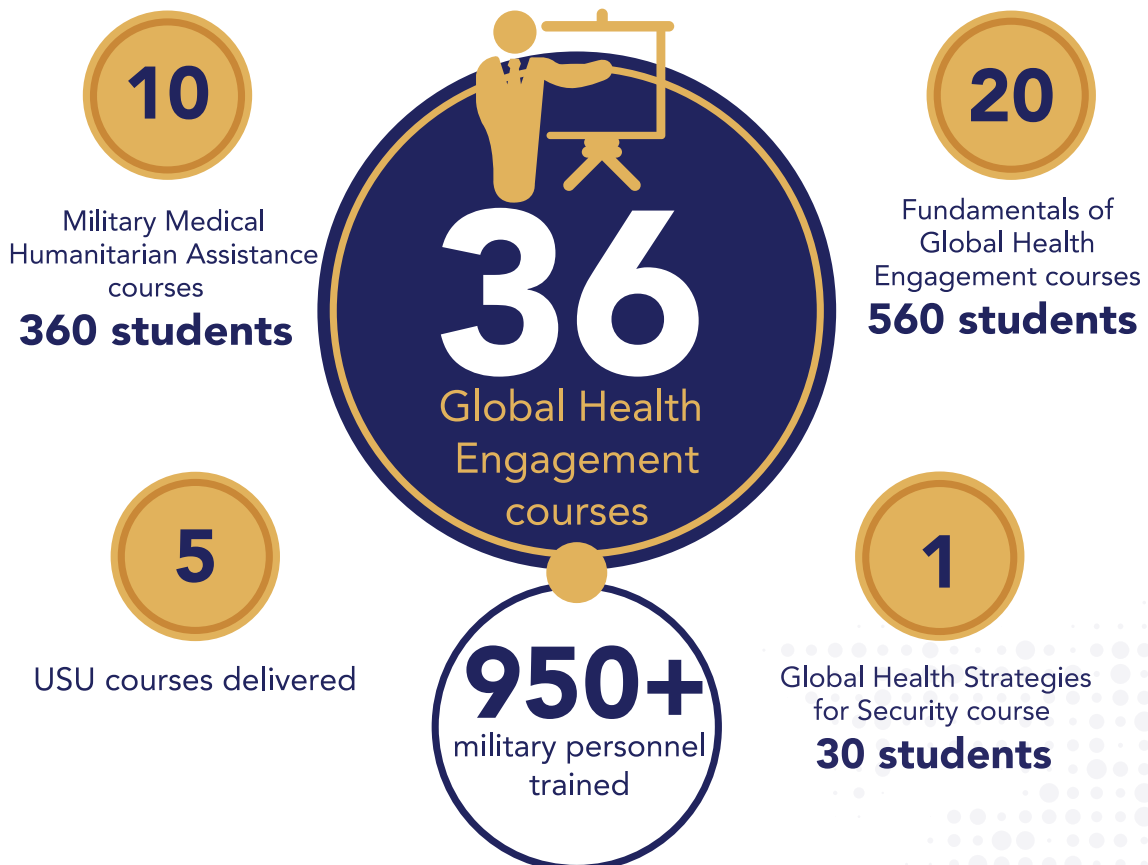
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CGHE, formally established in 2016, operates in accordance with the Uniformed Services University of the Health Sciences (USU) 2019-2023 Strategic Framework and provides support across USU's three mission domains: education, research and scholarship, and leadership and leader development, all while striving to enhance Joint Force readiness.

2019 Highlights



LETTER FROM THE DIRECTOR



The Center for Global Health Engagement (CGHE) celebrated its third anniversary this year as a leading center within the Uniformed Services University of the Health Sciences. In this report, we are proud to highlight key initiatives and achievements that have contributed significantly to the effectiveness of military health engagement across the globe.

As part of our transition from defining to refining our priorities and infrastructure in 2019, CGHE was ready to meet the release of the DOTmLPF-P (Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities and Policy) Change Recommendation (DCR) for Department of Defense (DoD) Global Health Engagement (GHE).

This process, and its 15 outlined recommendations, allowed CGHE to lend support to the joint GHE mission, which strives to establish requirements in support of readiness, foster key security cooperation priorities, strengthen partner nation relationships, and support globally integrated operations across the joint operational environment.

Strategically positioned to convene military academic institutions and DoD GHE stakeholders for the purpose of reshaping existing and developing new GHE tools, CGHE renewed its commitment to support the development of the GHE Handbook and Playbooks as outlined in the DCR on behalf of the Office of the Assistant Secretary of Defense for Health Affairs. These knowledge products will provide the rationale and be part of the toolbox needed for the DoD to plan, conduct and evaluate GHE activities across the spectrum of operations by the Combatant Commands (CCMDs) and service components, as well as other agencies and partners.

Programmatically, CGHE continues to grow and expand its capacities in support of the warfighter, specifically by supporting the CCMDs' Surgeons' Offices and the Office of the Joint Staff Surgeon. CGHE has made remarkable advances in executing the medical component of the Department of State's African Peacekeeping Rapid Response Partnership in support of U.S. Africa Command (USAFRICOM) in Uganda, Ghana, Rwanda and Senegal. In fact, CGHE is expanding its partnership with all service branches to ensure alignment of effort and delivery of course materials and equipment. In addition, our professional training teams successfully delivered 20 Fundamentals of Global Health Engagement (FOGHE) courses to more than 560 Military Health System professionals in 2019, including the delivery of forward-based training to our civil affairs forces in Djibouti supporting Combined Joint Task Force - Horn of Africa, which is the first time a FOGHE course was ever delivered on the African continent. We also continued our support of the GHE breakout session at the Military Health System Research Symposium, as well as expanding our support to the Defense Threat Reduction Agency's Biological Threat Reduction Program in U.S. Central Command (USCENTCOM), U.S. Indo-Pacific Command (USINDOPACOM), and USAFRICOM areas of responsibility.

As we prepare for 2020, CGHE is poised to address an increasing demand across the DoD GHE enterprise, specifically when it comes to supporting the CCMDs and ensuring alignment with their Theater Campaign Plans. As always, I want to thank our staff and everyone who has committed their time and energy in support of our efforts and missions around the globe.

A handwritten signature in black ink that reads "Danny Shiau".

Danny Shiau, MD, MPH, CAPT, MC, USN
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TRAINING AND EDUCATION

As part of its three lines of effort, CGHE develops and implements Department of Defense (DoD) Global Health Engagement (GHE) education and training products to prepare Military Health System (MHS) professionals and students to plan and conduct GHE activities. One of the highlights this year was to begin the process of developing an advanced, level-two Fundamentals of Global Health Engagement (FOGHE) course for CCMDs focused on planning and nesting GHE activities to align with security cooperation objectives. This advanced course is slated to be rolled out in 2020.

Fundamentals of Global Health Engagement Courses

CGHE successfully delivered 20 FOGHE courses to more than 560 MHS professionals in calendar year 2019. FOGHE is an awareness-level course designed to prepare MHS professionals to better conduct GHE activities. Recognizing the dynamic nature of the DoD GHE field, CGHE focuses on continuous improvement of its courses. In 2019, CGHE completed an update of the FOGHE course in order to ensure full alignment with DoD Instruction 2000.30 on GHE Activities.

Highlights: CGHE delivered its FOGHE course on the African continent for the first time in 2019. Due to constant personnel turnover with the Combined Joint Task Force (CJTF)-Horn Of Africa (HOA) staff, the high operational tempo in the HOA theater, and the continuous need to develop and execute GHEs, the CJTF-HOA Surgeon's office requested a FOGHE course for a larger number of personnel conducting GHE in theater. A team from CGHE successfully conducted the course at Camp Lemonnier, Djibouti, to a large population of civil affairs personnel operating in HOA, with content tailored to the African context.

Global Health Strategies for Security Course

Global Health Strategies for Security 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. This year, the course was co-hosted with the U.S. Agency for International Development and included 30 participants.

Military Medical Humanitarian Assistance Course

CGHE provided support to 10 Military Medical Humanitarian Assistance courses in 2019, training more than 360 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 the tools and skills to manage vulnerable patient populations, especially infants and children, in austere disaster and crisis situations.

Support to the Uniformed Services University of the Health Sciences

CGHE continues to support the Uniformed Services University of the Health Sciences (USU) by facilitating the DoD GHE components of USU's annual Military Contingency Medicine course and its field exercise, Operation Bushmaster. This CGHE-led training provided more than 200 participants with exposure to GHE principles and practices with a simulated experience of working with partner-nation personnel to execute a GHE scenario. CGHE also supported distinguished observers, including escorting the United Arab Emirates Military Surgeon General and a Military ER Director as they viewed many elements of Operation Bushmaster over two days. In addition, CGHE supported USU by delivering several other GHE-related courses to students, by participating in USU's annual Summer Operational Experience as well as by hosting students interested in DoD GHE for practicums and fellowships.



OPERATIONAL SUPPORT

Support to Combatant Commands

CGHE supports Combatant Command (CCMD) Global Health Engagement (GHE) efforts with expertise attached to each area of responsibility. CGHE seeks opportunities, especially through its liaisons, to support by way of providing consultation and advice for program development and management purposes. Liaisons offer a historical base of knowledge and continuity as GHE operators rotate in and out of the CCMDs and service components, and they are able to advise the design and development of GHE activities and multi-year health engagement themes, as well as overall country specific health engagement strategies.

CGHE supports USCENTCOM and its service components by assisting them in planning and executing GHE activities in support of the CCMD theater engagement strategy. In 2019, focused assistance was provided to facilitate an Air Force Central led trauma system development effort with the Jordanian Royal Medical Services, the USCENTCOM Command Surgeons effort to standardize language and products to better enable health engagement efforts throughout the region, and participation in bi-lateral discussions with partner nation representatives to USCENTCOM's bi-annual Regional Health Engagement Exchange as one component of the annual planning cycle.

CGHE also supports USAFRICOM and U.S. European Command (USEUCOM) by providing GHE operational expertise and responding to various requests for information. In 2019, CGHE was asked to review USEUCOM GHE activities in more than 20 partner nations to help ensure efforts are synchronized and appropriate. Specifically, CGHE was able to provide continuity for several multi-year, extant Building Partner Capacity GHE programs (e.g., Balkan Medical Task Force, Georgia Wounded Warrior program and Ukraine Battlefield Medical program). Additionally, CGHE provided USAFRICOM with GHE expertise in assisting with the development of a long-term GHE strategy to support U.S. Army Africa's Medical Readiness Exercise program in several African partner nations.

CGHE also supported USINDOPACOM in the planning and execution of the inaugural Military Health Security Summit, which was co-hosted by the Australian Defence Forces and

USINDOPACOM. The summit took place in June 2019 on the sidelines of the Global Health Security Conference in Sydney. Multisectoral representatives from 19 countries and 13 regional or non-governmental organizations participated in the two-day event, which focused on global health security, including the role of the military and also in advancing military-civilian cooperation in this realm. This event supported the U.S. National Security Strategy, the U.S. National Biodefense Strategy, the U.S. Global Health Security Strategy, as well as USINDOPACOM regional priorities, including enhanced collaboration with the Australian Defence Forces on global health security, particularly in Oceania. CGHE also supported USINDOPACOM by helping develop its relationships with military medical universities in Taiwan and Fiji.

The Playbooks Initiative

CGHE launched the Playbooks Initiative in 2019 in response to a DOTmLPP-P change recommendation on DoD GHE and in support of the Office of the Assistant Secretary of Defense for Health Affairs. The Playbooks Initiative is supported by research funding via the Defense Health Agency, Research & Development Directorate (J-9). It aims to investigate how a DoD GHE programs can be better planned, prepared, executed and evaluated to achieve intended outcomes. The research findings will guide the development of Playbooks to support operational entities implementing GHE programs, with a focus on specific functional areas.

To achieve this, CGHE hosted two Playbooks workshops, the first in July and the second in November 2019. The workshops aimed to identify current barriers and assumptions to playbook use, develop a common framework and conceptualization of playbooks, finalize a definition and purpose, and find consensus on the process of playbook creation for military specific functional areas. Workshop participants included representatives from CCMDs and service components, all service branches, the Defense Health Agency, and the National Guard Bureau. These workshops also led to an evaluation design that will explore Playbooks implementation as a multi-case study to enable the DoD to better understand how Playbooks will seek to operate as a GHE tool and the relationship between the use of a playbook and increasing DoD GHE effectiveness.



PROGRAMS

The CGHE Programs aim to expand support to the uniformed services, including the Joint Staff, CCMDs, their subordinate component commands and the services by providing program management, deliverables and subject matter expertise, as requested, to meet national security objectives.

African Peacekeeping Rapid Response Partnership

CGHE continues to support USAFRICOM and the U.S. Department of State in coordinating and executing the African Peacekeeping Rapid Response Partnership (APRRP) medical line of effort in four countries: Ghana, Rwanda, Senegal and Uganda. APRRP's overall program goal is to develop a sustainable rapid response capability in partnership with troop-contributing countries to rapidly respond to emerging crises in the region. APRRP seeks to build and strengthen key military enablers: transportation, engineering, logistics, communications and medical capabilities.

The medical line of effort is designed to provide full capability packages, which include equipment, equipment-related training, and other associated training on required skill sets. This effort is designed to enable partner nations to rapidly deploy and sustain a United Nations Level 2 Hospital. CGHE draws on expertise from across the services to adapt and execute training activities, which are tailored to the needs of each country based on identified capability gaps. A train-the-trainer model is used whenever feasible.

This year marked a period of growth for the APRRP program. Through extensive coordination and collaboration, CGHE established new partnerships with U.S. Naval Forces Africa, U.S. Army Africa, the National Guard Bureau State Partnership Program for Ghana and Senegal (North Dakota and Vermont, respectively), Level 2 Hospitals Vendors (HDT and Western Shelter), and the Defense Institute for Medical Operations to serve as implementing partners.

Republic of Uganda

Key milestones achieved in Uganda in 2019 included the receipt of the first APRRP Level 2 Hospital and the successful execution of the first and only Level 2 Hospital Vendor Training. The Uganda People's Defence Forces (UPDF) demonstrated great enthusiasm, performance, and investment during this training event. More than 30 students learned critical skills necessary to set up, break down, and properly store a Level 2 Hospital. UPDF designed their own Level 2 Hospital layout, executed a successful mass casualty exercise that highlighted aspects of command and control, patient tracking, and clinical practice, and packed the Level 2 Hospital back into its original shipping containers for storage. UPDF is in the process of developing a plan to mitigate skill atrophy and ensure new trainers are teaching new personnel these recently attained skills. CGHE is slated to serve as the medical lead for an exercise planning series in 2020, to include a Command Post Exercise and Field Training Exercise, with assistance from U.S. Army Africa for medical planning and logistics expertise.



APRRP Uganda Highlights:

Event	Date	Results
Medical Modeling and Simulation Course	January 2019	Four UPDF trainers completed course delivered by the Defense Institute for Medical Operations. This course further establishes the Allied Health and Nursing School as a medical training center of excellence.
Trauma Nursing Course, Third Iteration	February 2019	Five trainers, trained in first and second iterations, taught the course to 16 students. UPDF satisfactorily demonstrated independent capability to sustain the Trauma Nursing Course.
Level 2 Hospital Vendor Training	May 2019	First week of training taught by a U.S. vendor while the second week was taught almost entirely by 26 UPDF participants.
Infection Control and Health Care Worker Safety Course	June 2019	A total of 16 students trained in the fundamentals of preventing hospital infections and critical challenges posed by care of Ebola victims, including donning and doffing personal protective equipment and triage of Ebola patients in the field.
International Military Medical Humanitarian Assistance Course	July 2019	First course launched for the APRRP medical program. 22 UPDF primary care providers were trained in preparing for and executing appropriate medical care to civilian populations in austere health emergency settings per guidelines set forth in the Sphere Handbook.
Field Sanitation Course, Second Iteration	August 2019	Six train-the-trainer and U.S. instructors trained 17 new students in field sanitation; 4 new train-the-trainers were identified.
Critical Care Course, First Iteration	November 2019	First course launched for APRRP. A total of 14 UPDF students trained in critical care skills, resulting in 7 students identified as train-the-trainers for a second iteration to be conducted in early 2020.

Republic of Rwanda

The Rwanda Defence Force (RDF) independently taught three APRRP medical courses in 2019. The RDF incorporated Field Sanitation and Trauma Nursing courses into a mandatory continuing education course for all its military medical personnel. RDF commanders returning from Peacekeeping Operations reported medical personnel who had taken the APRRP medical Trauma Nursing course were saving lives using skills learned through course while deployed. Following this observation, the course is now being taught to all medical personnel (civilian and military) being deployed to Peacekeeping Operations.

APRRP Rwanda Highlights

Event	Date	Results
Trauma Nursing Course, Third Iteration	February 2019	Two Trauma Nursing Course students trained in first and second iterations, taught 100 percent of the course to 8 new students. RDF demonstrated independent capability to sustain the course.
Field Sanitation Course, Third Iteration	March 2019	100 percent of course content, including all lectures, activities, debriefs, field trips, capstone activities, and materials led and managed by the partner nation trainer cadre.
Clinical Ultrasound Course, Third Iteration	May 2019	Three train-the-trainers successfully trained 8 medical RDF staff members in the course.
Level 2 Hospital Vendor Training	June 2019	A total of 80 RDF personnel trained in setting up, taking down, and repacking the equipment. Key milestone for Rwanda.
International Military Medicine Humanitarian Assistance Course	November 2019	A total of 16 students trained; first course in Rwanda.

Republic of Senegal

APRRP Senegal launched its first series of workshops in February 2019, which consisted of a Medical Planning Workshop and Logistics Workshop followed by a succession of courses to include Field Sanitation, and Level 2 Hospital vendor training.

APRRP Senegal Highlights

Event	Date	Results
Medical Planning and Logistics Workshop	February 2019	First workshop intended as an information-gathering event to shape medical planning and logistics processes.
Field Sanitation Course, First Iteration	May 2019	A totals of 16 students trained; resulting in 9 strong train-the-trainer candidates identified to teach the second iteration.
Medical Planning and Logistics Course	June 2019	A total of 12 students trained resulting in increased knowledge of medical planning principles.
Field Sanitation Course, Second Iteration	September 2019	Three train-the-trainers selected during first iteration of course; successfully taught 50 percent of second iteration; additional 5 train-the-trainers trained.
Level 2 Hospital Vendor Training	October 2019	A total of 26 students trained in setting up, taking down, and repacking of the equipment.

Republic of Ghana

In June 2019, the Ghana Armed Forces (GAF) completed the construction of an APRRP Medical Training Facility. The facility includes a didactic classroom and a space for the Medical Modeling and Simulation Center, which is currently in the planning stages. GAF received two APRRP United Nations Level 2 Hospitals this year. They are currently renovating two warehouses to store the equipment. Ghana also kicked off its first formal training activity with an APRRP Medical Planning, Logistics and

Biomedical Equipment Workshop. This workshop aimed to gather a baseline understanding of the policies and procedures GAF will use when rapidly deploying a Level 2 Hospital. It highlighted the importance of coordination between medical and non-medical personnel, specifically logistics and planning staff. The first course launched in Ghana was the Field Sanitation course, which was delivered in November 2019.



Global Emerging Infections Surveillance CCMD Disease Surveillance Coordination Project

CGHE continues to support the Armed Forces Health Surveillance Branch's Global Emerging Infections Surveillance (GEIS) with the 2018-launched CCMD Disease Surveillance Coordination Project, which is an effort to conduct regionally-focused infectious disease surveillance workshops to coordinate infectious disease surveillance activities among DoD and U.S. government agencies. The goal is to identify and fill surveillance gaps in support of geographic CCMD force health protection decision-making and security cooperation planning.

In 2019, CGHE focused on developing the first integrated trans-regional infectious disease surveillance coordination report, which retrospectively evaluates the first iteration of Disease Surveillance Strategic Planning Workshops at each geographic CCMD held in 2018. The consolidated report illustrates results in prioritization of pathogens, countries and regions for infectious disease surveillance, identification of surveillance gaps, and determination of DoD and/or U.S. government equities that could be leveraged to fill these gaps. The ultimate goal is to improve regional stability and enable improvements to force readiness through early warning of infectious disease threats to the health of the force. In addition to the report, CGHE developed an assessment

tool that allows GEIS to gauge progress made in more closely aligning their annually funded research proposals with CCMD pathogens and countries of greatest strategic interest.

CGHE is currently working toward planning the second iteration of Disease Surveillance Strategic Workshops at each geographic CCMD to be held over the course of the 2020 calendar year with a focus on how GEIS products can better support force health protection risk assessment processes.

Defense Threat Reduction Agency – Biological Threat Reduction Program

In 2019, CGHE continued its longstanding support of the Defense Threat Reduction Agency's Biological Threat Reduction Program (BTRP) engagement in the USCENTCOM, USINDOPACOM, and USAFRICOM areas of responsibility. For years, CGHE subject matter experts have worked alongside the Defense Threat Reduction Agency to facilitate sustainable activities and helped cultivate relationships in partner nations to ultimately enhance biosafety, biosecurity and biosurveillance capacities and capabilities.

Hashemite Kingdom of Jordan

In 2019, CGHE participated in eight engagements with Jordanian government entities and universities to advance Defense Threat Reduction Agency goals and efforts related to bio-risk management and biosurveillance.

Event	Date	Stakeholders
Fiscal Year 2020 Stakeholders Meeting, Princess Haya Biotechnology Center; Technical Advisory Committee Meeting	January 2019	Royal Medical Services, Jordan Armed Forces Headquarters, Ministry of Agriculture, Jordan University of Science and Technology
Jordan National Tabletop Exercise Planning Meeting	March 2019	Jordanian Ministerial Leadership
Royal Medical Services Bio-Risk Training Facility Assessment	April 2019	Royal Medical Services
Tabletop Exercise Facilitator Training	June 2019	Jordanian Ministerial Leadership
Fiscal Year 2020 Final Planning Meeting	July 2019	Jordanian Ministerial Leadership
Weapons of Mass Destruction Tabletop Exercise Final Planning/Coordination	September 2019	Jordan Armed Forces
Weapons of Mass Destruction Tabletop Exercise Implementation	November 2019	Jordan Armed Forces
West Asia Bat Network Forum	December 2019	Jordan Royal Scientific Society

Republic of Uzbekistan/Central Asia

CGHE continued to build upon the Defense Threat Reduction Agency's 2020-2021 plans for Mobile Field Surveillance System deployment in the Aral Sea region. The Mobile Field Surveillance System will be structured to enhance field sampling, collection and analysis, transport of hazardous samples, detection, diagnosis and reporting. It will also be integrated with a modified training program for Uzbekistan. CGHE also began support to the Biosurveillance Network of the Silk Road organization in Central Asia and Eastern Europe to include provision of technical subject matter expertise and program facilitation at its 2019 Annual Meeting.

Regional Efforts

USCENTCOM	USINDOPACOM	USAFRICOM
Gulf Cooperation Council activity implementation commenced in mid-2019. CGHE subject matter experts supported assessments in Bahrain and UAE, to fill information gaps with regard to biosurveillance capacities and capabilities in each nation. Four additional GCC countries are slated to participate in 2020 to complete the first phase of this engagement. Beyond 2020, CGHE will support future phases of Gulf Cooperation Council regional engagement to include workshops, exercises, and a Biological Threat Reduction Forum.	Activities in 2019 focused on planning and implementation of the INDOPACOM and Australian Defence Forces co-sponsored the Military Health Security Summit to enhance health security collaboration between participating countries in Oceania. Planning has commenced for follow-on engagements in 2020 and 2021, and continued partnership with Australian Defence Forces. CGHE also continued providing support to the BTRP in delivering workshops on biological threats in the INDOPACOM area of responsibility, the latest of which was held in Singapore with ASEAN partners in December 2019.	Preliminary 2019 planning discussions with Africa Centers for Disease Control have been critical to the continued development of project plans for a Central Africa biosurveillance engagement. This regional biosurveillance effort will be led by CGHE and will complement ongoing activities of Africa Centers for Disease Control Regional Integrated Surveillance and Laboratory Networks.



ASSESSMENT, MONITORING AND EVALUATION

CGHE provides direct and indirect support to the DoD GHE enterprise in order to build capacity to conduct Assessment, Monitoring and Evaluation (AME) within DoD GHE programs and activities.

Improving Processes and Coordination in Theater (IMPACT)

This year, CGHE continued to provide direct AME support to the CCMDs through the IMPACT cooperative agreement, the purpose of which is to develop and integrate AME tools and practices to support the strategic goals outlined by the CCMDs' Theater Campaign Plans in order to measure the effectiveness of DoD GHE activities and help CCMDs with the DoD-mandated integration of AME into security cooperation activities.

Solomon Islands Public Health Capacity Building Program Evaluation

In support of USINDOPACOM, this outcomes-based program evaluation used a theory of change model to demonstrate the critical role evaluation theory, methods and tools can play in "unpacking" the process of change in DoD GHE. This evaluation, conducted over the course of 2019, applied, tested and refined a theory of change designed to deconstruct the process of capacity building as influenced by three different contexts in the South Pacific. Through the final iteration of the theory of change in the Solomon Islands, CGHE explored the influence of the local context on capacity-building outcomes and to demonstrate the relevance of realist concepts to DoD GHEs. CGHE seeks to contribute both to the literature of operationalizing realist evaluation concepts in complex settings and equip future DoD GHE decision-makers with the frameworks, methods and tools needed to deconstruct the nuances involved in processes of change and to understand and measure outcomes.

Ukraine Rehabilitation Interdisciplinary Team Approach Collaborative Program Evaluation

In support of USEUCOM and in collaboration with U.S. Army Europe, CGHE began conducting a values-oriented formative evaluation grounded in an illuminative framework in order to explore the means by which an interdisciplinary approach to the training of Ukrainian Ministry of Defence health care providers in contemporary rehabilitation methods and techniques is translated into practice. This evaluation aims to elicit best practices within an interdisciplinary training approach in modern rehabilitation capabilities with partner-nations, while building interoperability and increasing the capacity to provide care to injured soldiers and combatants. This evaluation commenced in 2019 by conducting a context assessment and the first of three data collection activities.

Evaluation Capacity Building

In order to increase evaluation capacity in DoD GHE, CGHE also began an action learning project using a community of practice approach with USINDOPACOM. By piloting a three-day workshop to build organizational institutional capacity across key AME competencies and through strategic consultations with GHE planners, CGHE is working to mainstream AME practices as embedded components of DoD GHE operational strategy. This project explores evaluation capacity building within a context where demand for AME is high but historically has lacked a DoD-specific framework for planning and execution of evaluations. This presents an opportunity to capitalize on momentum inspired by policy and build institutional capacity to conduct AME, pushing both the field of global health security and evaluation forward. This will allow for building capacity in a manner which encourages the use of AME findings, better data and systems, and sustainable operational evaluation practices.

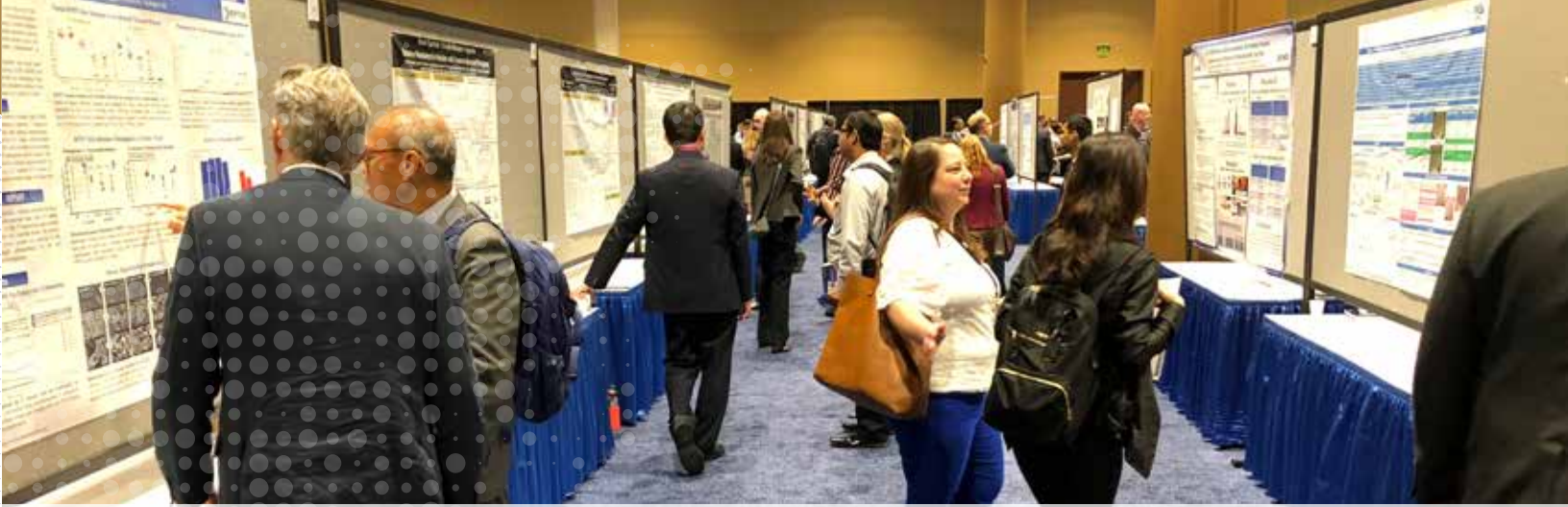
RESEARCH

Global Health Engagement Research Initiative

CGHE research strives to meet two main objectives: 1) Ensure a high-quality GHE research infrastructure and support; and 2) Align GHE research with strategic guidance. In 2019, CGHE continued management of the GHE Research Initiative (GHERI), which is funded with Defense Health Program Research, Development, Test, and Evaluation dollars, with guidance from the Office of the Assistant Secretary of Defense for Health Affairs, the Office of the Joint Staff Surgeon, and the DHA Research and Development Directorate (J-9). GHERI focuses on research related to operational efforts that will meet the needs of the Joint Force in either improving the understanding and execution of DoD GHE, or utilizing DoD health research activities to engage a partner-nation in support of Theater Campaign Plan objectives. The portfolio currently consists of 11 projects totaling \$12,751,313, which have been reviewed, prioritized and validated by the CCMDs.

Previous GHERI Projects

Topic Area	Grantee
Severe Infectious Disease: Surveillance, Detection, Risks and Consequences in West Africa (Protocol RV466), expanding Global Health Engagement by the Joint West Africa Research Group	Walter Reed Army Institute of Research
Development of an Expeditionary Operational Entomology Research Capability in Strengthening Ghana's National Malaria Control Program and Support Building Other Africa Malaria Task Force Partner Nation Malaria Control Capacity	U.S. Navy Entomology Center of Excellence
Virtual Information Management System for Enhanced Regional Coordination and Response	Johns Hopkins Applied Physics Laboratory
Efficacy Testing of a Novel Human Monoclonal Antibody Therapy for Late-stage Rabies/Lyssavirus Infection	Uniformed Services University of the Health Sciences
Health Engagement Teams for Improved Health Outcomes and Foreign Assistance	Uniformed Services University of the Health Sciences
Comparing Hospital Hand Hygiene in Liberia: Soap, Alcohol, and Hypochlorite	Uniformed Services University of the Health Sciences
Development of Universal Antivenin Using Display Phage	Naval Medical Research Unit, San Antonio
Assessment of Risk of Sexual Transmission of Zika from Active Duty Service Members to Partners	Infectious Disease Clinical Research Program
Utilizing Natural Products to Develop Novel Therapeutics for Helminth Infections	Uniformed Services University of the Health Sciences
U.S. Southern Command mHealth Demonstration Project	Johns Hopkins Applied Physics Laboratory



Military Health System Research Symposium GHE Breakout Session

In August 2019, CGHE led the “What’s New in GHE” breakout session at the Military Health System Research Symposium. The session was opened by the Acting Deputy Assistant Secretary of Defense for Health, Readiness, Policy, and Oversight. Topics were varied across the CCMDs and included an overview of health engagement teams in Central America; the Defense Assistance Malaria Program; Infectious Disease in Southeast Asia; Preparedness and Response to Emerging Infectious Threats in West Africa; Germany’s Global Military Health Research Engagement; and Amputation Capability in the Republic of Georgia. In addition to oral presentations, more than 20 posters were presented.

PUBLICATIONS

E.A. Erickson, J.C. Daniel, S.R. Petzing. “The Global Health Security Agenda: An Important Platform for Military Cooperation.” *International Review of the Armed Forces Medical Services*, Volume 92/2 (June 2019).

Boetig, Bradley, Kumpf, Josh, Jindal, Rahul M, Lieberman Lawry, Lynn, Baines, Lyndsay, Cullison, Thomas. “The USU Global Health Distance Learning Program: An International Educational Consortium for Global Health Engagement.” *Military Medicine* (December 2019)

PRESENTATIONS

Reed, Eva. “A Systems-Oriented Approach to Planning and Evaluating a Public Health Lab Capacity Building Intervention Using a Social Network Perspective to Highlight Patterns of Interaction in Organizational Relationships.” 2019 International Society for the Systems Sciences. Corvallis, OR (June 2019).

Reed, Eva and Jackson, Jessica. “A Community of Practice Approach to Building Institutional Evaluation Capacity in Global Health Engagement: An Action Research Study with the U.S. Department of Defense.” 2019 American Evaluation Association Conference. Minneapolis, MN (November 2019).

Reed, Eva. “Integrating Systems Concepts into Evaluability Assessment Design for Complex Change Initiatives.” 2019 American Evaluation Association Conference. Minneapolis, MN (November 2019).

POSTERS

Smith, David, Erickson, Elizabeth, Daniel, Christopher, and Petzing, Stephanie. “Global Health Security Agenda 2024: Opportunities for Defense Sector Engagement.” *International Committee of Military Medicine World Congress* (May 2019).

Ramsey, Sueann, Jones, Franca, Diehl Greulich, Jane, and Boivin, Michael. “Shaping the Future of the DoD Infectious Disease Surveillance Enterprise in Support of the Geographic Combatant Commands.” *Military Health System Research Symposium* (August 2019).

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