



DEPARTMENT OF THE ARMY
U.S. ARMY MANUEVER SUPPORT CENTER OF EXCELLENCE
14000 MSCOE LOOP, SUITE 316
FORT LEONARD WOOD, MISSOURI 65473-8929

REPLY TO
ATTENTION OF

MEMORANDUM OF UNDERSTANDING
BETWEEN
U.S. ARMY MANUEVER SUPPORT CENTER OF EXCELLENCE
AND
U.S. ARMY GARRISON FORT LEONARD WOOD
AND
GENERAL LEONARD WOOD ARMY COMMUNITY HOSPITAL
AND
PHELPS COUNTY REGIONAL MEDICAL CENTER
FOR
COLLABORATIVE INITIATIVE TO CONDUCT MEDICAL RESEARCH
AT FORT LEONARD WOOD, MISSOURI
AGREEMENT NUMBER CG 57

This is a Memorandum of Understanding (MOU) between the U.S. Army Maneuver Support Center of Excellence (MSCoE), U.S. Army Garrison Fort Leonard Wood (USAGFLW), General Leonard Wood Army Community Hospital (GLWACH), and Phelps County Regional Medical Center (PCRMC). When referred to collectively, the MSCoE, USAGFLW, GLWACH, and PCRMC are referred to as the "Parties".

1. **BACKGROUND:** Soldier training on Fort Leonard Wood results in several hundred minor to severe Traumatic Brain Injuries (TBIs) every year. The MSCoE has expressed keen interest in better understanding the causes, recognition, mitigation, and treatment of acute TBIs during training and as a result of combat operations. For the past three years, GLWACH has been selected to provide training for acute TBIs, then in 2016, the Hospital hosted a TBI Summit with academia from around the state. As a result of that meeting, the Acute Effects of Neurotrauma Consortium (AENC) has been formed and a Cooperative Research and Development Agreement (CRADA) has been entered into by the Clinical and Translational Research Program Office (CTRPO), Leonard Wood Institute (LWI), and PCRMC. The CRADA will allow for the funneling of research from four major universities in Missouri, and potentially other universities, to perform research, studies, or clinical trials on the installation. The U.S. Army Medical Command has a strong interest in this research as well. On 26 April 2018, the USAGFLW entered into MOU #17-149 with the GLWACH and PCRMC. This (the revised) MOU replaces the original MOU, thus the original MOU (17-149) is deemed to be terminated upon the execution of this (the revised) MOU.

1.1. The mission of the MSCoE is to develop competent leaders and warriors of character and deliver total Army Engineer; Chemical, Biological, Radiological, and Nuclear; Military Police; Maneuver Support; and Protection capabilities to enable mission success across the range of military operations. These enduring priorities support the mission:

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- 1.1.1. Develop agile, adaptive leaders of character
- 1.1.2. Train skilled warriors grounded in our values and profession
- 1.1.3. Force Modernization – Current and Future Force Capabilities
- 1.1.4. Ensure total Army readiness

1.2. Via the CRADA, the four research entities (University of Missouri at Columbia, University of Missouri at Kansas City, Missouri University of Science and Technology, and Washington University) integrate education, research, and application to create and convey knowledge, with considerable medical, mechanical, and electrical research in the area of TBIs that intersects seamlessly with the incidence of acute TBIs for Soldiers in training. These institutions have already applied for research funding focused on, e.g.:

- 1.2.1. TBI Bio Markers
- 1.2.2. Molecular Biophysics and Biochemistry Medicine
- 1.2.3. Neuroradiology and Software
- 1.2.4. Neuropsychology
- 1.2.5. Neuroimaging
- 1.2.6. Biological and cognitive benefits of cognitive rehabilitation treatments
- 1.2.7. In-field TBI testing systems

1.3. Pursuant to the terms specified in this MOU, the Parties seek to leverage the significant numbers of concussive events resulting from Soldier training and available technologies in a collaborative method, plus share information in order to address areas of mutual concern as agreed to by all Parties. The end result being in-field prevention of mild TBIs (mTBIs), recognition, mitigation, and treatments.

2. PURPOSE: The purpose of this MOU is to facilitate collaborative research and development, technical support, technology demonstration, and utilization in the area of TBIs on site in the installation training areas. The GLWACH and PCRMC will work collaboratively with the MSCoE to create the capability for this advanced research at Fort Leonard Wood.

3. SCOPE: Collaboration with LWI and PCRMC resulted in the creation of the AENC and the CTRPO CRADA. Each researcher will present their proposal to the AENC pursuant to the terms of the CRADA. The AENC lead (PCRMC or LWI) will coordinate potential studies with GLWACH. Studies or experiments determined by GLWACH to have potential for investigation via the CRADA shall be referred by GLWACH to MSCoE and USAGFLW as appropriate. MSCoE will review the proposals to determine whether support would create training distractors or safety concerns for participation by Initial Entry Training (IET) or Professional Military Education (PME) Soldiers and/or military service members. Concerns will be directed back to the GLWACH point of contact (POC). Each area of research is expected to be significantly different yet all focused on acute TBI research. The MSCoE and USAGFLW will support the initiatives through coordination with appropriate on-post organizations. Most of the data capture work and analysis will be performed at GLWACH-provided facilities, the University of

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Missouri Tech Park, and/or the Waynesville Medical Plaza (WMP).

3.1. DATA PROTECTION: The CRADA between CTRPO, LWI, and PCRMC, Article 10 Proprietary and Protected Information, is hereby contained in its entirety by reference.

4. UNDERSTANDINGS OF THE PARTIES:

4.1. MSCoE, via the Program Management and Integration Directorate (PMID) –

4.1.1. Acts as the MSCoE interface with the GLWACH POC regarding projects via the CRADA and ensures that all communications between researchers, consortium (AENC) members, PCRMC, and LWI are directed to GLWACH as the Government lead in accordance with (IAW) the CRADA. Serves as the integrator for USAGFLW, GLWACH, and resident TRADOC training commands. Effects staff coordination with MSCoE and Fort Leonard Wood stakeholders to include:

4.1.1.1. Conducting comprehensive screening of AENC research proposals, clinical trials, or related studies based on military value.

4.1.1.2. Conducting collaborative value assessment with staff, faculty, and resident TRADOC training commands for AENC research proposals, clinical trials, or related studies involving Soldiers and/or military service members on the installation.

4.1.1.3. Providing recommendations to senior MSCoE leadership informed by anticipated outcomes, support requirements from the installation and units, and relevancy to proponent school, MSCoE, and Army needs and interests.

4.2. USAGFLW, via the Plans Analysis and Integration Office (PAIO) –

4.2.1. Coordinates with the various on-post organizations to support the collaborative initiative. This coordination includes:

4.2.1.1. Providing base operations services, facilities, and infrastructure on a reimbursable basis to enable AENC research proposals, clinical trials, or related studies involving Soldiers and/or military service members on the installation.

4.2.1.2. Coordinating engagement between representatives of the identified on-post organizations and the GLWACH.

4.2.1.3. Providing access to the installation in accordance with current policy and access standards.

4.3. GLWACH –

4.3.1. Acts as the Government's sole point of communications between PCRMC,

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LWI, the AENC members and individual researchers. Works with the AENC via the CRADA to accomplish work, including:

4.3.1.1. Assisting with value assessment of AENC research proposals, clinical trials, or related studies.

4.3.1.2. Assisting with government related Costs Evaluation for participation of any research proposal.

4.3.1.3. Assisting the AENC with identifying areas of research with potential benefits to the services.

4.3.1.4. Assisting with pre-screening future opportunities to engage in larger federally-supported research funding opportunities.

4.3.1.5. Providing staff resources to facilitate proposals and research under the CRADA and this MOU.

4.3.1.6. Assisting in facilitating government medical resources approved for AENC research proposals and efforts under this MOU.

4.3.2. Supports CTRPO, LWI, and PCRMC in maintaining the CRADA and associated research requirements. Collaborates with all stakeholders in maintaining research requirements and sharing with the Parties.

4.3.3. Facilitates the practical application of research results in revising/adapting the training to mitigate future TBIs.

4.4. PCRMC –

4.4.1. Operates fully IAW the terms of the CRADA.

4.4.2. Channels all communications associated with the subject matter of the CRADA through the GLWACH POC.

4.4.3. Interfaces with researchers and universities participating in the AENC and ensures that they channel all communications regarding projects through PCRMC for coordination with the GLWACH POC IAW the CRADA.

4.4.4. PCRMC also:

4.4.4.1. Provides office staffing to administer to all researchers.

4.4.4.2. Provides additional office and lab space for researchers at the WMP.

4.4.4.3. Acts as the coordinating entity for researchers to interface with the

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Parties.

5. PERSONNEL: Each Party is responsible for all costs of its personnel including pay and benefits, support, and travel. Each Party is responsible for supervision and management of its personnel.

6. GENERAL PROVISIONS:

6.1. POCs: The following POCs will be used by the Parties to communicate in the implementation of this MOU. Each Party may change its POC upon reasonable notice to the other Parties.

6.1.1. For MSCoE –

6.1.1.1. Mr. Stuart Saulpaugh, Director, Program Management & Integration Directorate (PMID), (573) 563-5558, stuart.d.saulpaugh.civ@mail.mil

6.1.1.2. Ms. Eva Lewis, Program Manager, PMID, (573) 563-2601, eva.d.lewis2.civ@mail.mil

6.1.2. For USAGFLW –

6.1.2.1. Mr. Bryan Parker, Director, Plans Analysis and Integration Office (PAIO), (573) 563-5234, bryan.l.parker.civ@mail.mil

6.1.2.2. Ms. Lidia Baker, Support Agreements Manager, Directorate of Resource Management (DRM), (573) 563-7626, lidia.e.baker.civ@mail.mil

6.1.3. For GLWACH –

6.1.3.1. Mr. John Ingersoll, Chief, Clinical Operations, (573) 596-0727, john.w.ingersoll.civ@mail.mil

6.1.3.2. Ms. Sheila Woolstenhulme, Access to Care Manager, (573) 596-9124, sheila.m.woolstenhulme.civ@mail.mil

6.1.4. For PCRMC –

6.1.4.1. Mr. Barry White, Executive Director, Acute Effects of Neurotrauma Consortium (AENC), (573) 368-8090, bsw3006@gmail.com

6.1.4.2. Ms. Margaret Matthews, Provider Relations Specialist, (573) 458-7524, mmatthews@pcrmc.com

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6.2. CORRESPONDENCE: All correspondence to be sent and notices to be given pursuant to this MOU will be coordinated between the above identified POCs utilizing the contact information provided in paragraph 6.1.

6.3. FUNDS AND MANPOWER: This MOU does not document nor provide for the exchange of funds or manpower between the Parties nor does it make any commitment or constitute an obligation of funds or specific commitment of resources by any of the Parties. Nothing contained in this MOU imposes any specific program, resource, operational, legislative, or budget obligations on any of the Parties.

6.4. MODIFICATION OF MOU: This MOU may only be modified by the written agreement of the Parties, duly signed by their authorized representatives. This MOU will be reviewed annually on or around the anniversary of its effective date in its entirety. This MOU may not be amended or modified except by written agreement between the Parties. Any of the Parties may propose amendment or modification of this MOU at any time.

6.5. DISPUTES: Any disputes relating to this MOU will, subject to any applicable law, Executive Order, Directive, or Instruction, be resolved by consultation between the Parties or IAW DoDI 4000.19.

6.6. TERMINATION OF UNDERSTANDING: This MOU may be terminated in writing at will by any of the Parties.

6.7. TRANSFERABILITY: This MOU is not transferable except with the written consent of the Parties.

6.8. ENTIRE UNDERSTANDING: It is expressly understood and agreed that this MOU embodies the entire understanding between the Parties regarding the MOU's subject matter.

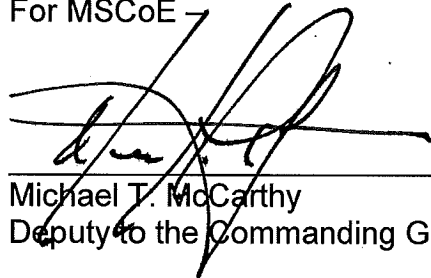
6.9. EFFECTIVE DATE: This MOU takes effect beginning on the day after the last Party signs.

6.10. EXPIRATION DATE: This MOU expires nine years from the date it is signed by all Parties in concert with the CRADA. This MOU will become effective the day after the last Party signs and will remain in effect for a nine-year period from the date it is signed by all Parties unless extended or terminated IAW with this agreement. The period of agreement may be extended by written agreement of all Parties. Any of the Parties may terminate this agreement by providing written notice to the other Parties.

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APPROVED:

For MSCoE –

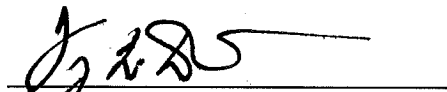


Michael T. McCarthy
Deputy to the Commanding General

14 JUN 2018

(Date)

For USAGFLW –



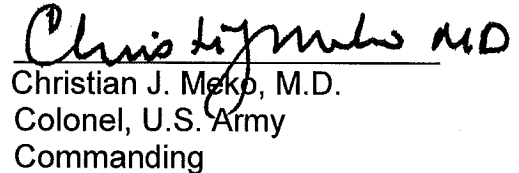
Tracy L. Lanier
Colonel, U.S. Army
Commanding

14 JUN 2018

(Date)

Encl
CTRPO/LWI/PCRMC CRADA

For GLWACH –

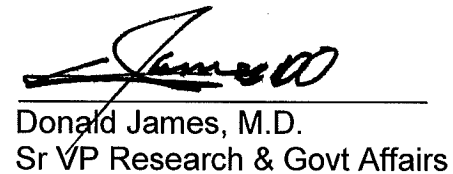


Christian J. Meko, M.D.
Colonel, U.S. Army
Commanding

14 JUN 2018

(Date)

For PCRMC –



Donald James, M.D.
Sr VP Research & Govt Affairs

14 JUN 2018

(Date)