



DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT LEONARD WOOD
14000 MSCOE LOOP, SUITE 120
FORT LEONARD WOOD, MO 65473-8929

REPLY TO
ATTENTION OF

MEMORANDUM OF UNDERSTANDING BETWEEN
U.S. ARMY GARRISON, FORT LEONARD WOOD
AND
GENERAL LEONARD WOOD ARMY COMMUNITY HOSPITAL
AND
PHELPS COUNTY REGIONAL MEDICAL CENTER
Collaborative Initiative to Conduct Medical Research
at Fort Leonard Wood
AGREEMENT #17-149

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

1. BACKGROUND: Soldier training on Fort Leonard Wood results in several hundred minor to severe Traumatic Brain Injuries (TBI) every year. The Fort Leonard Wood Maneuver Support Center of Excellence (MSCoE) has expressed keen interest in better understanding the causes, recognition, mitigation and treatment of acute TBI's during training and as a result of combat operations. For the past three years, GLWACH has been selected to provide training for Acute TBI's, 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 has been formed and a Cooperative Research and Development Agreement (CRADA) has been issued by the U.S. Army Medical Research and Materiel Command (USAMRMC). This agreement is with the Leonard Wood Institute (LWI) and the Phelps County Regional Medical Center (PCPMC). The CRADA will allow for the funneling of research from five major universities in Missouri to perform research work on the installation. MEDCOM has a strong interest in this research as well.

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

- 1.1.1. Develop agile, adaptive leaders of character
- 1.1.2. Train skilled warriors grounded in our values and profession
- 1.1.3. Design, develop, and integrate, future forces, capabilities and concepts
- 1.1.4. Maintain a resilient and sustainable workforce and installation

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1.2. Via the CRADA, the five research entities (University of Missouri at Columbia, University of Missouri at St. Louis, Missouri University of Science and Technology, St. Louis University and Washington University) integrate education, research and application to create and convey knowledge, with considerable medical, mechanical and electrical research in the area of TBI's that intersects seamlessly with the incidence of acute TBI's for Soldiers in training. These institutions are not limited to, yet already applying for funding monies focused on:

- 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 mTBI's, 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 Traumatic Brain Injuries physically in the installation training areas. The USAGFLW will support the collaborative efforts of the Parties to the CRADA to assist in the accomplishment of its stated purposes. Nothing in this MOU shall be construed to in any way modify or amend any provision in the Master CRADA. Should at any time it be discovered that any provision of this MOU conflicts with the Parties rights, duties or obligations under the CRADA the provisions of the CRADA shall control.

3. PROJECT SCOPE: This collaborative initiative has begun with the creation of the Acute Effects of Neurotrauma Consortium (AENC) and the award of the USAMRMC CRADA with LWI and PCRMC. Each researcher will present their proposal in a white paper for approval and coordination through the GLWACH and various training commands as appropriate. As the research universities are awarded funding, the scope of that work will result in an amendment to the CRADA for its scope of work. Each area of research is expected to be significantly different yet all focused on acute TBI research. The USAGFLW while not a party to the CRADA will support and assist the participation of GLWACH & MEDCOM in the accomplishment of the CRADA's purpose through coordination with appropriate on-post DA organizations. Most of the data capture work and analysis will be performed at GLWACH provided facilities, the Tech Park and/or the Waynesville Medical Plaza. There will be no monetary outlay costs to the USAGFLW or the Fort Leonard Wood installation for the collaborative initiatives that

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will be performed via the CRADA or LWI's ARL agreement, however, should the GLWACH or USAGFLW incur costs, those monies may be recovered via the project.

3.1. DATA PROTECTION: The Cooperative Research and Development Agreement, MC-17-0131 between the U.S. Army Medical Research and Materiel Command, the Leonard Wood Institute and PCRMC, Article 10 Proprietary and Protected Information is hereby contained in its entirety by reference.

4. UNDERSTANDING OF THE PARTIES:

4.1. The USAGFLW-Plans Analysis and Integration Office (PAIO) will—

4.1.1. Coordinate with the various on-post organizations to support the collaborative initiative. This coordination will include:

4.1.1.1. Identify the on-post organizations that would be involved with the initiative.

4.1.1.2. Coordinate engagement between representatives of the identified on-post organizations and the GLWACH/PCRMC Research team.

4.1.1.3. Provide access to installation as needed in accordance with current installation access policy.

4.1.2. Provide GLWACH and CRADA Team with a central Fort Leonard Wood installation point of contact.

4.1.3. Support the GLWACH team in their efforts to engage with non-DOD partners who would be interested in this initiative to the extent permitted by law and regulation.

4.1.4. Characterize and quantify benefits realized through this effort to the military mission.

4.2. GLWACH will –

4.2.1. Work with the Acute Effects of Neurotrauma Consortium (AENC) via the CRADA to accomplish work, including:

4.2.1.1. Assist with value assessment of AENC research proposals.

4.2.1.2. Assist with government related Costs Evaluation for participation of any research proposal.

4.2.1.3. Assist the AENC with identifying areas of research with potential benefits to the services.

4.2.1.4. Assist with pre-screening future opportunities to engage in larger federally-supported research funding opportunities.

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4.2.1.5. Will provide staff resources to facilitate proposals and research under the CRADA and this MOU.

4.2.1.6. Assist in facilitating government medical resources approved for AENC Research proposals and efforts under this MOU.

4.2.2. Support the U.S. Army Medical Research and Materiel Command, LWI and PCRMC in maintaining the CRADA and associated research requirements. Collaborate with all stakeholders in maintaining research requirements and sharing with the Parties.

4.2.3. Facilitate the practical application of research results in revising/adapting the training to mitigate future TBI's.

4.3. PCRMC will –

4.3.1. Form the Acute Effects of Neurotrauma Consortium (AENC)

4.3.2. Manage a protocol for AENC members to coordinate for support and collaborations with each other, CRADA members and Fort Leonard Wood., plus review and issue AENC approvals to researchers via the Parties

4.3.3. Issue and administer the AENC Membership Agreement for Researchers.

4.3.4. PCRMC will also:

4.3.4.1. Provide office staffing to administer to all researchers.

4.3.4.2. Provide additional office and lab space for researchers at the Waynesville Medical Plaza (WMP).

4.3.4.3. Act as the coordinating entity for researchers to interface with the Parties.

5. PERSONNEL: Each Party is responsible for all costs, excluding cost recovery as noted above, 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. POINTS OF CONTACT: The following points of contact (POC) will be used by the Parties to communicate in the implementation of this MOU. Each Party may change its point of contact upon reasonable notice to the other Party.

6.1.1. For the USAGFLW PAIO –

6.1.1.1. Mr. Mark Premont, Director, Plans Analysis and Integration Office (PAIO), 573-563-5234, mark.t.premont.civ@mail.mil

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

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6.1.2. For GLWACH –

6.1.2.1. Mr. John Ingersoll, Chief, Clinical Operations, GLWACH 573-596-0727, john.w.ingersoll.civ@mail.mil

6.1.2.2. Mary L. Williams, Support Agreements Manager, GLWACH, 573-596-0131 ext. 69332, mary.l.williams62.civ@mail.mil

6.1.3 For PCRMC –

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

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.

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 either Party.

6.4. MODIFICATION OF MOU: This MOU may only be modified by the written agreement of the Parties, duly signed by their authorized representative. This MOU will be reviewed annually on or around the anniversary of its effective date. This MOU may not be amended or modified except by written agreement between the Parties. Either Party 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 in accordance with DoDI 4000.19.

6.6. TERMINATION OF UNDERSTANDING: This MOU may be terminated at will by either Party.

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.

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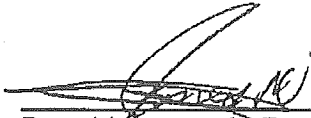
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6.9. EFFECTIVE DATE: This MOU takes effect beginning on the day after the last Party signs.

6.10. EXPIRATION DATE: This MOU expires nine years from the effective date in concert with the CRADA. This MOU will become effective as of the date of final signature by all Parties and will remain in effect for a nine-year period from the effective date, unless extended or terminated in accordance with this agreement. The period of agreement may be extended by written agreement of all Parties. Either Party may terminate this agreement by providing written notice to the other Party.

AGREED:

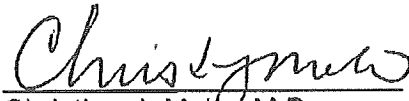
For PCRMC –



Donald James, M.D.
Senior Vice President/Chief Medical Officer

4/11/17
(Date)

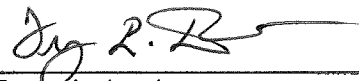
For GLWACH–



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

18 APRIL 17
(Date)

For USAGFLW –



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

26 APR 17
(Date)