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## Telemedicine and Advanced Technology Research Center: Quarterly Report, January 18, 2010 to April 17, 2010

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## Quarterly Report

1. **Contract No:** W81XWH-08-1-0451
2. **Report Date:** May 2, 2010
3. **Reporting Period:** January 18, 2010 to April 17, 2010
4. **PI:** Dr. Bea Babbitt
5. **Telephone No:** (702) 895-1506
6. **Institution:** University of Nevada, Las Vegas –Division of Educational Outreach (UNLVEO).
7. **Project Title:** Development of a P.O.I. and a Blended Learning Ecology for use in Combat Lifesaver Skills Training for the Army.
8. **Current Staff with percent of effort:**

The percent of effort of the current project personnel is as follows:

| Name   | % of Effort<br>Development Stage | % of Effort<br>Implementation Stage |
|--|----------------------------------|-------------------------------------|
| Principal Investigator (Dr. Bea Babbitt)     | 50%                              | 50%                                 |
| Research Specialist (Dr. Angelina Hill)      | 50%                              | 50%                                 |
| Director of Operations (Jerry Bussell)       | 50%                              | 50%                                 |
| Graduate Assistant (Gordon Louie)            | 80%                              | 20%                                 |
| Graduate Assistant (Amanda Tarquino)         | 80%                              | 20%                                 |
| Dist. Ed. E-Module Design Team               | 80%                              | 20%                                 |
| Asst. to the Director of Ops. (David Nguyen) | 50%                              | 50%                                 |

### 9. Contractual Expenditures by Quarter:

To date, we have spent a total of **\$ 354,557.10** as follows:

|                 | This Quarter       |                    |                    | Project Cumulative  |                     |                     |
|-----------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|
|                 | Development        | Implementation     | Total              | Development         | Implementation      | Total               |
| Personnel       | 23,875.23          | 28,199.98          | 52,075.21          | 104,625.71          | 99,803.64           | 204,429.35          |
| Fringe Benefits | 2,851.98           | 2,989.13           | 5,841.11           | 10,273.21           | 10,479.74           | 20,752.95           |
| Travel          | 1,905.70           | 3,473.89           | 5,379.59           | 2,608.29            | 12,517.56           | 15,125.85           |
| Operations      | 743.46             | 7,160.00           | 7,903.46           | 15,653.20           | 7,937.64            | 23,590.84           |
| Indirect Cost   | 13,040.90          | 9,970.77           | 23,011.67          | 57,569.28           | 33,088.83           | 90,658.11           |
| <b>Total</b>    | <b>\$42,417.27</b> | <b>\$51,793.77</b> | <b>\$94,211.04</b> | <b>\$190,729.69</b> | <b>\$163,827.41</b> | <b>\$354,557.10</b> |

## **10. Comments on administrative and logistical matters:**

Power-point slides were completed for each Combat Lifesaver lesson. These slides were created using the classroom performance system software, and they included questions to be answered using the personal response clickers. FIG instructors were trained by the UNLV team to use the classroom performance system with clickers via a video web conference. The slides and classroom performance system were used in two FIG training classes, while under the supervision of UNLV team members. The slides were revised following these trial runs and they are now ready for widespread use.

A draft of the Program of Instruction has undergone significant revision to incorporate elements not present in the original model provided to us. The next draft will be completed shortly. This was made possible through feedback received from FIG personnel. SFC James visited UNLV to provide his expertise related to the POI. He also consulted on the development of the e-modules.

A Distance education e-module development team has been appointed and has begun developing the two e-modules: (1) Evaluation of the Casualty and (2) Controlling Bleeding.

The full project was presented to a distinguished national panel at a Product Line Review in March by the Principal Investigator. We await formal feedback in addition to the feedback that was received at the review.

The final pieces of equipment were purchased for FIG. A purchase order for 20 Lenovo ThinkPads is currently pending approval from the UNLV Purchasing Department. An InterwriteMobi has been purchased for FIG to allow instructors to control the PRS remotely from anywhere in the classroom.

## **11. Scientific Progress for the Quarter:**

We carried out two pilot implementations this quarter at FIG. Specifically, we oversaw training courses that used the presentation slides and the classroom performance system with clickers. No data was collected, but these pilots allowed us to identify potential problems prior to full implementation. We identified technical issues such as USB port competition between the PRS receiver and other devices, as well as necessary slide revisions. These issues have been resolved and we are confident that FIG instructors can use the new presentation and PRS system without problem.

We are close to having full approval to conduct research. Following notification from UNLV that the study is exempt under category 1, our regulatory compliance specialist contact submitted our protocol for an ORP HRPO Exempt Determination under 32 CFR 219.101(b)(1). On March 23rd we received feedback from the Team Leader/Exemption Coordinator at the US Army Medical Research and Material command requesting additional materials and explanation. We fully responded to this request on April 6th and we await a final response.

## 12. Plans or Milestones for the Next Quarter:

Projected milestones for this project for the next quarter include the following items:

- Receive an ORP HRPO Exempt Determination prior to May 10th in order to begin the collection of data from training classes at FIG;
- Fully implement and begin to analyze effectiveness of the new presentation and classroom performance system;
- Finish the development of two E-Modules (beta version) and clarify intellectual property rights.

Tentative schedule:

| <b>Important Dates</b> | <b>Task</b>                               | <b>Responsible Team Members</b> |
|------------------------|---|---------------------------------|
| May 10 – 14, 2010      | POI Implementation 1                      | Jerry Bussell and Gordon Louie  |
| May 17 – 21, 2010      | POI Implementation 2                      | Dr. Babbitt                     |
| May 21, 2010           | Begin Analysis Phase                      | Dr. Babbitt and Dr. Hill        |
| July 1, 2010           | Completion of E-Modules<br>(beta version) | Distance Education              |