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Telemedicine and Advanced Technology Research Center: Quarterly Report, April 18th, 2011 to July 17th, 2011

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Quarterly Report

1. **Contract No:** W81XWH-08-1-0451
2. **Report Date:** July 28th, 2011
3. **Reporting Period:** April 18th, 2011 to July 17th, 2011
4. **Principal Investigator:** 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 Development Stage	% of Effort Implementation Stage
Principal Investigator (Dr. Bea Babbitt)	50%	50%
Research Specialist (Dr. Angelina Hill)	50%	50%
Dist. Ed. E-Module Design Team	80%	20%
Project Assistant (Gordon Louie)	50%	50%
Technical Assistant (Trish Harrison)	50%	50%

	This Quarter			Project Cumulative		
	Development	Implementation	Total	Development	Implementation	Total
Personal	51,224.68	4,000	55,224.68	226,797.54	150,249.89	377,047.43
Fringe Benefits	9,474.16	131.37	9,605.53	25,497.93	16,065.70	41,563.63
Travel	1,757.90	-	1,757.90	4,943.45	25,085.28	30,028.73
Operations	25,884.44	9,000	34,884.44	45,211.41	47,097.64	92,309.05
Indirect Cost	38,415.51	3,414.16	41,829.67	131,553.18	62,009.65	193,562.83
Total	\$126,756.69	\$16,545.53	\$143,302.22	\$434,003.51	\$300,508.16	\$734,511.67

9. Project Updates and Progress for the Quarter:

- E-Module Development

To better illustrate the concept of teaching using a blended learning ecology, the UNLV team agreed to prepare at least two eModules to accompany the Combat Lifesaver curriculum. Through consultation with content experts at Fort Indiantown Gap it was decided that those modules should focus on two extremely important areas of the combat lifesaver curriculum – patient assessment and bleeding control.

The modules were designed as self-paced learning modules for soldiers. They represent an alternative learning tool for mastering combat lifesaver content. The design of the interactives distributed throughout the modules required extensive development time to best illustrate combat lifesaver concepts, incorporate relevant learning principles, and capitalize on the interactive potential of electronic media. Hence, numerous iterations of the interactives were reviewed and refined until they met project standards. The modules were developed by Dr. Bea Babbitt, Principal Investigator, Dr. Angelina Hill, Research Specialist, and Gordon Louie, Program Support. They were designed and programmed by the UNLV Distance Education Instructional Design Team. The Pennsylvania Army National Guard Medical Operations Instructional Team at Fort Indiantown Gap, Pennsylvania provided content expertise.

Final revisions to the eModules were completed in May. They were then sent in for production as CDs, and the team received the copies in June. One hundred fifty copies were then delivered to Cpt. Adam Bickford, Pennsylvania Army National Guard Medical Operations Unit, Fort Indiantown Gap, Pennsylvania.

-Research Dissemination

With abstracts submitted and approved, the team traveled to San Jose, California in mid-July for the Sloan-C ET4OL 2011 Conference. Project research on the effects of incorporating a student response system into Combat Lifesaver Training was shared in a presentation entitled “Enhancing an Army Training Course with Technology: Impact on Trainees and Instructors.” The presenters incorporated the use of the student response system into the presentation to illustrate its use as trainee and instructor satisfaction and performance effects were described. The audience was interested in the technology itself, the instructional learning curve, and the positive research results.

The team now prepares for the next presentation (a poster session) at the ATACCC 2011 Conference in Fort Lauderdale, Florida

- **Rapid Deployment Instructional System**

A Rapid Deployment Instructional System (RDIS) was purchased to support dissemination efforts. The system was designed to contain all the elements needed to present training content using a blended learning approach. The system can be transported into the field as well as used in traditional training sites. The system facilitates training using personal response systems and the interactive mobi in a wide variety of training venues.

- **Personnel**

In June, Dr. Steve Huff and his Interactive Learning team were contracted to provide customized curriculum development for the ten Combat Casualty Care lessons. Their first task is to reintegrate the presentation materials with the eInstruction technologies that have changed and developed over the course of the contract. They began this work by adapting the slides for the Sloan-C ET4OL conference. Secondly, they will refine the presentation using relevant cognitive principles. In particular, they will add new questions or update existing questions to encourage higher level thinking, incorporate animation and chunking to support understanding and recall, and incorporate optional vocabulary and assessment features.

Patricia Harrison was contracted as a technical assistant to troubleshoot and ensure smooth delivery of the newly reintegrated presentation and demonstrations with the Rapid Deployment Instructional System.

- **Deliverables**

eModules: 1) Patient Assessment
2) Bleeding Control
3) Bleeding Control Extended

Abstract: "Enhancing an Army Training Course with Technology: Impact on Trainees and Instructors."

Presentation : "Enhancing an Army Training Course with Technology: Impact on Trainees and Instructors." July 12, 2011. Sloan-C ET4OL 2011 Conference, San Jose, CA.

10. Plans or Milestones for the Next Quarter:

Final quarter objectives for this project include the following items:

- Presentation of research at ATACCC conference.
- Write research article and submit research for publication.
- Complete customized Combat Casualty Care presentation materials.