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

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Quarterly Report

1. **Contract No:** W81XWH-08-1-0451
2. **Report Date:** July 30, 2010
3. **Reporting Period:** April 18, 2010 to July 17, 2010
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%
Director of Operations (Jerry Bussell)	50%	50%
Dist. Ed. E-Module Design Team	80%	20%
Asst. to the Director of Ops. (Gordon Louie)	50%	50%

9. Contractual Expenditures by Quarter:

To date, we have spent a total of **\$ 481,679.20** as follows:

	This Quarter			Project Cumulative		
	Development	Implementation	Total	Development	Implementation	Total
Personnel	23,875.23	26,200.02	50,075.25	128,500.94	126,003.66	254,504.60
Fringe Benefits	2,567.64	2,782.14	5,349.78	12,840.85	13,261.88	26,102.73
Travel	460.26	10,083.75	10,544.01	3,068.55	22,601.31	25,669.86
Operations	899.94	30,160.00	31,059.94	16,553.14	38,097.64	54,650.78
Indirect Cost	12,094.38	17,998.74	30,093.12	69,663.66	51,087.57	120,751.23
Total	\$39,897.45	\$87,224.65	\$127,122.10	\$230,627.14	\$251,052.06	\$481,679.20

10. Project Updates and Progress for the Quarter:

- **April 26, 2010**
The second revision of the POI was completed. SFC James had met with the UNLV Team on his visit on April 12, 2010 and had suggested logistical changes as well as other detail changes to the POI. With the revisions made, the team prepared for submission of the POI during the upcoming pilot-testing trip to FIG in early May.
- **May 6, 2010**
The study to assess the effectiveness of the interactive lecture materials was fully approved by the Army's Medical Research and Materiel Command, after having already gained IRB approval at UNLV.
- **May 10, 2010**
A team was sent to oversee and implement a pilot test of the new instructional material (including the fully integrated PRS PowerPoint) on a CLS course taking place that week at FIG. During the course of the implementation, some changes were made to the presentation to further enhance clarity and ease of use. For evaluation purposes, survey questionnaires were collected from both the instructional staff as well as the students on the effectiveness of the integrated PRS system. Responses from students were overwhelmingly positive, and PRS data as well as student final exam scores were also collected for analysis and comparison to past and future data for overall effectiveness of the program.

While at FIG, the team submitted the 2nd draft of the POI to SFC James and the Logistics experts at FIG. 2nd Lt. Keener, POI and logistics expert, suggested some further corrections for better clarity. The team proceeded to work on these corrections upon return to UNLV

- **May 16 - May 18, 2010**
A second team was dispatched to attend the annual American Telemedicine Conference in San Antonio, TX. Here they were able to see other TATRC projects and advances in the field that could be incorporated into their own project, and they were able to speak with TATRC COR Major Talbot about the project's progress.
- **May 19 - May 21, 2010**
Immediately following the conference in San Antonio, the second team travelled to FIG for further of classes at FIG. It was noted that the instructors continued having difficulty operating the PRS system despite the earlier week's experience with it. Further PRS data as well as questionnaires and test scores were gathered and brought back to the University for the analysis phase.

- **Early June 2010**
The 3rd revisions to the POI were completed and sent to FIG for review. The Senior Instructional Designer went to FIG to meet with the instructional staff and discuss the progress and direction the eModules would take. The instructors assisted in laying out the final design scheme of the eModules. Subsequently, the eModule design team has produced a beta-version of the eModules that is being edited. Meanwhile, the UNLV Team had a meeting discussing initial feedback from the students and staff at FIG from implementation and laid out plans for future implementation trips as well as share experiences from each member's trips for a better overall understanding of the process. The Lenovo computer order was shipped to FIG in early June along with Microsoft Office software for use with the upcoming eModules.

- **July 1, 2010**
With David Nguyen's contract expiring, the team brought back Gordon Louie, the Graduate Student who had created the POI, as the Assistant to the Director of Operations.

11. Scientific Progress for the Quarter:

- **Internal Review Board (IRB) approval**

We have obtained 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 May 6, 2010 we received feedback from the Team Leader/Exemption Coordinator at the US Army Medical Research and Material command granting approval of the study.

After receiving proper approval to conduct the study, questionnaires have been collected from soldiers in two training classes on their perception of the clickers, presentation, and alignment of materials. We are in the process of analyzing the results.

12. Plans or Milestones for the Next Quarter:

Future objectives for this project include the following items:

- Complete eModules; the modules are in their final phase of development. Beta-testing will reveal any needed additions, corrections, or modifications.
- Continue carrying out implementation and data collection of the revised presentation and personal response system. The UNLV Team has planned a trip to

FIG on July 19, 2010 for the purpose of extensive training for the instructional staff on the uses of the PRS. Additional trips for implementation purposes will be scheduled as needed.

- Finalize the Program of Instruction. As stated, the POI has been completed and submitted to FIG. Any further steps needed for submission will be taken.
- Continue data analysis and conclude findings in Final Report due in October 2010.

Important Dates	Task
July 19 -21, 2010	Instructional Meeting with FIG Staff on proper use and benefits of the Integrated PRS System
Mid-August, 2010	Implementation at FIG
September 30th, 2010	Completion and submission of eModules
September-October, 2010	Analysis of data and preparation of research report
October 31, 2010	Final Report Due