

Principal Investigator/Program Director (Last, First, Middle): Nancy T. Lombardo

<b>PROGRESS REPORT SUMMARY</b>	GRANT NUMBER 5G08LM007919-03	
	PERIOD COVERED BY THIS REPORT	
PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR Nancy T. Lombardo	FROM August 1, 2004	THROUGH July 31, 2005
APPLICANT ORGANIZATION Eccles Health Sciences Library, University of Utah		
TITLE OF PROJECT (Repeat title shown in Item 1 on first page) Neuro-Ophthalmology Virtual Education Library: NOVEL		
A. Human Subjects (Complete Item 6 on the Face Page)		
Involvement of Human Subjects	<input checked="" type="checkbox"/> No Change Since Previous Submission	<input type="checkbox"/> Change
B. Vertebrate Animals (Complete Item 7 on the Face Page)		
Use of Vertebrate Animals	<input checked="" type="checkbox"/> No Change Since Previous Submission	<input type="checkbox"/> Change

SEE PHS 2590 INSTRUCTIONS.

**WOMEN AND MINORITY INCLUSION: See PHS 398 Instructions. Use Inclusion Enrollment Report Format Page and, if necessary, Targeted/Planned Enrollment Format Page.**

The specific aims of the Neuro-Ophthalmology Virtual Education Library (NOVEL) project have not changed. There are no studies or results to report. The project web site is: <http://library.med.utah.edu/NOVEL/>

The NOVEL project has made excellent progress this year. The collaboration between the Eccles Health Sciences Library (EHSL) and the North American Neuro-Ophthalmology Society (NANOS) has continued to be very successful. The digital library has proven very useful to the NANOS members and this has increased their level of confidence and enthusiasm. NANOS members have provided valuable feedback, contributions, and have a multitude of suggestions for expanding and enhancing the project. Members were particularly impressed with the design and usability, thanks to Valeri Craigle, our Project Coordinator and Designer.

Specific accomplishments this year include the completion of the William F. Hoyt optic disc slide collection. The collection holds approximately 900 images. Each image has been described using standardized metadata fields. The slides and metadata have been completely peer reviewed by the NANOS Web Education Committee. Each slide and description was reviewed by two or more neuro-ophthalmologists. Minor adjustments were made to the metadata based on the reviewer comments.

The Shirley H. Wray collection of neurovisual disorder video cases has expanded to more than 100 cases. Dr. Wray has refined her approach to the metadata describing the cases and is producing extremely detailed clinical information. Dr. Wray has arranged a collaboration with Anne G. Osborn, M.D., Distinguished Professor of Radiology at the University of Utah School of Medicine, who will supply imaging slides for all of Dr. Wray's video cases. This will add additional value to the digital collection.

The Kathleen B. Digre collection has morphed into the Moran Eye Center collection. In addition to material from Kathleen B. Digre, MD, materials have been submitted to the Moran Collection from Bradley J Katz, MD, PhD, Assistant Professor of Ophthalmology and Neurology, and Judith E.A. Warner, MD, Associate Professor of Ophthalmology & Visual Sciences, Assistant Professor of Neurology. We believe this collaborative model established a nice precedent and will encourage other groups to contribute. This collection also includes work done by Dr. Digre in collaboration with Daniel M. Jacobson, MD (1956-2003) during their fellowship at the University of Iowa.

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Valerie Biousse, MD, Associate Professor of Ophthalmology and Neurology, Emory University School of Medicine, Chair of the Curriculum Committee to discuss our utilization of the curriculum outline. We met with Jonathan D. Trobe, MD, Professor of Ophthalmology and Neurology, University of Michigan, Editor of JNO, to discuss the use of NOVEL as a multi-media supplement for the journal.

There were many rewarding use anecdotes shared with us at the NANOS 2005 meeting and via email following the meeting. At the meeting, three separate faculty explained that they were using the Hoyt and Wray collections in teaching and it was extremely helpful, as they no longer had to sort through their own slides and their selection of subject coverage was so greatly expanded. One faculty stated that it had completely changed the way she taught the residents. A faculty from Turkey emailed an inquiry and we were able to provide her with instructions for downloading the Wray and Moran video and she was delighted. Another faculty from Ireland requested instructions for loading the J. Lawton Smith audio lectures onto his iPod in order to listen while he commuted from one clinic to another. Since the NANOS 2005 meeting, the NOVEL web site is averaging approximately 150,000 hits from nearly 7,000 unique visitors.

An article was published in the Journal of Neuro-Ophthalmology<sup>1</sup> reporting on the progress of the NOVEL library. A poster was presented at the Utah Library Association annual meeting. The project will also be heavily promoted at the annual Slice of Life Conference, to be held in Portland, OR from June 15 – 18. The NOVEL team will be providing an auditorium presentation, an electronic demonstration, and an informal breakout session. The target audience of this conference is biomedical educators interested in computer or digital multi-media and should be an excellent venue for generating ideas for future expansion of our project.

This coming year, we have many plans, some of which have been outlined above. We will continue to build the Wray collection, digitizing case video, adding radiology and imaging slides from the collection of Anne Osborn, MD. We plan to complete the Smith lecture series and investigate digitizing segments of his extensive 35mm slide collection. We will continue to grow the Moran Eye Center collection, using video, slides and presentations from the Moran faculty. We have the Cogan videos in process and will utilize our new personnel to move that collection forward. We will continue to solicit materials from NANOS members. We are encouraging NANOS members to integrate their multimedia into their publications by providing links to the materials in the NOVEL collection.

In July 2005, David Newman-Toker MD, (Assistant Professor of Neurology with Joint Appointments in Ophthalmology, Otolaryngology, Health Policy & Management, and Biomedical Information Sciences at the Johns Hopkins University School of Medicine) will be visiting the Spencer S. Eccles Library at the University of Utah to begin the process of digitizing a series of Neuro-Ophthalmology animations he has developed.

We will promote the project at the NANOS, AAN, Medical Library Association, Utah Library Association annual meetings. In addition to an overview of the progress on NOVEL, we plan to do a hands-on training session at the NANOS meeting in March of 2006. We have been invited by the American Academy of Ophthalmology (AAO) to present the project at their annual meeting in October 2005. This is a great opportunity, as the AAO is one of the largest sub-specialty associations and the NOVEL materials are directly relevant to the members.

1. Lombardo, N.T., Craigle, V. Progress on the Neuro-Ophthalmology Virtual Education Library (NOVEL). J Neuroophthalmol June 2005; 25: In press.