

Name Thurston Quarterly ARRA Report (10/1/10 – 12/31/10)

Instructions Complete all fields below. If all required fields are not satisfactorily filled in you will be required to complete another survey.

Question 1 PI name (last name, first name): Pearson, Thomas

Question 2 Prime recipient award number: 3UL1RR024160-04S2

Question 3 QUARTERLY ACTIVITY UPDATE: Please provide an update to the project status, this is exclusive of the award completeness and should update employment, recruiting, purchasing, and or any and all pre-science processes.

In October of 2009, the University of Rochester, in collaboration with Vanderbilt University, UC Davis, and UCSF, received an administrative supplement from the NCCR to continue work begun by UCSF (in collaboration with the University of Rochester, Vanderbilt University, and UC Davis), to build a useful resource for clinical and translational researchers and consultants. In collaboration with members of the national Biostatistics, Epidemiology, Research Design (BERD) Online Resources and Education task force, we have subsequently made significant progress addressing the defined specific aims and fostering collaboration within the national consortia. Progress for this quarter is outlined by the specific aims in the grant application:

- 1. Aim 1: To continue generating site content in biostatistics, research design and epidemiology topics and find a sustainable home for the CTSpedia.**
 - Administrative update: We are still working on a mechanism for permanent funding. Iris Obrams (NIH) has encouraged us to apply for supplemental funding for 2011 – 2012. We are discussing which site will take the lead on this proposal.
 - Redesign of the CTSpedia: The redesign of the CTSpedia continues. Vanderbilt has designed a new Web Home for the CTSpedia and most of the webs are now consolidated in the CTSpedia web. We are still experimenting with the design of the best search options for the site and how to build greater community awareness for the site.
 - Reproducible Research: The Reproducible Research area of the CTSpedia was created. It incorporates Standards and Definitions, Papers, Methodology, and Working Group in Reproducible Research. Dr. Deb Nolan of UC Berkeley has provided us her paper on Enhanced Dynamic Environments for Reproducible Research.
 - Technical support and site hosting: Vanderbilt continues to support the project. During this quarter, the programmers at Vanderbilt have added 27 system enhancements. The new Tag Me plugin allows all users to tag their favorite pages and then easily search for the pages on a later occasion. They also

continue to support the assorted problems and questions encountered by our users.

- Rochester and UCSF biostatisticians have formed a working group with monthly conference calls to update templates and forms in Statistical Tools and to report on the latest collaborations in tool development. Three Rochester biostatisticians attended the Pharmaceutical Users Software Exchange (PhUSE) Meeting in Boston and discussed their meetings with FDA representatives.. Rochester biostatisticians have made 71 updates to the SAS Macros. We are working on a new naming convention to help better define attachments to the CTSpedia Statistical Tools. The following Statistical Tools were updated:

SAS:

%RegMacro <http://www.ctspedia.org/do/view/CTSpedia/LinearRegressionSASMacro>
%Countreg <http://www.ctspedia.org/do/view/CTSpedia/CountRegressionSASMacro>
%ESMacro <http://www.ctspedia.org/do/view/CTSpedia/EffectSizeLongitudinal>
%EffectSizeMixed <http://www.ctspedia.org/do/view/CTSpedia/EffectSizeMixed>
%EFDPowlongitud <http://www.ctspedia.org/do/view/CTSpedia/PowESDLongitud>
% EFDPowNested <http://www.ctspedia.org/do/view/CTSpedia/PowESDNested>
%ROCcutoff <http://www.ctspedia.org/do/view/CTSpedia/ROCcutoff>

R:

MWW_longitudinal.r <http://www.ctspedia.org/do/view/CTSpedia/MWWComplete>

2. Aim 2: To pilot a collection of workshop and short-course materials and slides related to statistical consulting and basic statistical concepts and tools.

- The BERD Education Working Group has defined the following goals: **Education working group.** This working group was formed in spring 2010, and is a subgroup of the BERD Online Resources Task Force. Our focus is on creating, organizing, linking, and managing educational materials primarily housed on CTSpedia. These materials target two different audiences:

(1) For the non-Biostat/Epi audience who could directly benefit from online education, we aim to collect pdf, powerpoint, and video files that may be of direct interest to this audience, and to develop a repository of links to online educational material outside of CTSpedia.

(2) For the Biostat/Epi audience, material falls into two categories: (a) material for our own education, including short summaries of new and advancing topics of interest, and a bibliography with links (when possible) to relevant articles, and (b) modifiable source files (LaTeX, Powerpoint, Word, and possibly associated R code), datasets, and worked examples for teaching.

Additional goals of this working group are (1) to work with the Strategic Goal Committee # 2 to fill in gaps and otherwise assist in their core competencies for statistical education; (2) to develop Biostat/Epi material for teaching and training medical residents; and (3) to use the membership in this working group for feedback *for draft educational material being developed by BERD members.*

- We will be assisting Dr. Enders with her statistical assessment tools and Dr. Babineau with posting her survey questionnaires on the CTSpedia.
- We will be assisting the University of Wisconsin with posting their videos on relevant topics in statistics education to the CTSpedia.

3. Other collaborations:

- Statistical Graphics: Work with the FDA Center for Drug Evaluation and Research and Pharmaceutical Companies
 - a. Mat Soukup from the FDA has contributed a number of statistical graphics and the CDISC datasets to public on the CTSpedia.
 - b. Rich Forshee from the FDA is working with CTSpedia staff on the best way to do both vertical and horizontal searches of the graphical materials. These searches will present user-friendly reports. The first uploads to public view will be the Statistical Graphic's Flow Chart and graphics from the ECG/Vitals Subteam.
 - c. The General Principles Subteam's flow chart is almost ready to upload to public view on the CTSpedia. We are working on finding ways to embed links within the graphics that are part of the flow chart.
- Reproducible Research: Deb Nolan from UC Berkeley has joined our discussions on Reproducible Research and will be contributing some of her work to this section of the CTSpedia.

Question 4 Provide an evaluation as to the completeness of the project. (If a subaward has been issued, this must include the status of the prime and subaward.)

- Not started
- Less than 50% complete
- X Completed 50% or more of the original goals
- Fully completed

Question 5 SUBAWARD: Is any amount of this award passed through to a Subrecipient? If you answer “Yes” to this question, please answer the next question. If you answer “No”, please proceed to Question 7. Yes

Question 6 SUBAWARD: Legal Name of the Subrecipient (ie: Rochester Institute of Technology)

University of California, Davis

Vanderbilt University

Question 7 JOB CREATION: List the individuals performing effort on this award. (Last Name, First Name; Last Name2, First Name2; etc...)

Banach, Mary (UC DAVIS) – No new hires this quarter.

Question 8 VENDOR: Have you purchased anything for this project from a vendor individually greater than or equal to \$25,000? No

Question 9 VENDOR: Do you anticipate purchasing anything for this project from a vendor greater than or equal to \$25,000? No

Question 10 VENDOR: If you answered “Yes” to either Question 8 or Question 9, please provide the name of the vendor. No