Monthly Program Status Report - PROJECT

Reporting Period:	August 2014			
Contracting Agency:	Food and Drug Administration (FDA)			
FDA Project Manager:	Jingyee Kou, jingyee.kou@fda.hhs.gov, 301-796-9495			
FDA Subject Matter Expert:	Thomas Permutt, thomas.permutt@fda.hhs.gov, 301-796-1271			
FDA COTR:	Shaila Shaheed, Shaila.Shaheed@fda.hhs.gov,			
Contract / Order:	HHSF223201310230C			
Contractor PI:	Daniel Scharfstein, dscharf@jhsph.edu, 410-955-2420			
Project Team:	Aidan McDermott (Computer Programmer)			
Description of Activity:	A recent FDA-sponsored National Research Council Report recommended that "examining sensitivity to the assumptions about the missing data mechanism should be a mandatory component of reporting." While the Report outlines a framework for conducting sensitivity analysis, there are two major problems with existing methods: (1) they have not been implemented in software packages and (2) they do not adequately address non-monotone missing data patterns (i.e., patients provide data irregularly). The objective of this project is to address these gaps by: 1) creating unified and coherent methods for global sensitivity analysis of clinical trials with monotone and non-monotone missing data, 2) developing free, open source and reproducible software in SAS and R to implement the methods, and 3) demonstrating the methods and software using real clinical trial data.			

Project Health Check							
Health ▶	Budget	Budget Schedule			Resources	Deliverables	
Notes ►	Within Budget On S		On Schedule		Adequate	On Target	

Budget	Budget Tracking – (TOTAL CONTRACT CEILING)						
POP	Ceiling Remaining	Cumulative Funding	Year Funding	Spent to Date	Year Funding Remaining	Month Invoice	Funding Covers
POP			(Year 1)				
Base	\$1,094,565	\$1,094,565	\$1,094,565	\$325,516.31 (*\$42,316.63) committed)	\$769,048.69	\$244,087	Salary, fringe, other expenses, and indirect costs

Activity Summary and Highlights

Over the last month, we posted the software (titled SAMON) on our website. The software runs in a Linux/Unix environment running GSL and SAS. Ted Peterson (CDRH) has successfully beta tested the software. We presented the methodology underlying the software package at a JSM invited session (see website for slides). We continued to work on adding data analysis and simulation sections to the manuscript. We scheduled a short course for January 2015. We have made progress on speeding up the code. We are working on porting the package to Microsoft and building an R interface. We are developing a methodology for analyzing studies with intermittent missing data.

Key Accomplishments				
Current Reporting Period	Planned for Next Period			
 Posted and beta tested C code. Presentation at JSM Worked on speeding up code Worked on porting to Microsoft Continued work on manuscript Scheduled short course for January 2015 Worked on methodology for intermittent missing data. 	 Initiate the Forum option on Website Expand membership on Website Develop Windows-based version of software Develop a less computationally intensive confidence interval procedure. Finish draft of manuscript Work on methodology for intermittent missing data Submit short course proposal to SCT. 			

Issues and Risks					
Category	Prior ity	Status	Opened	Issue	Description
Contract (FDA)	1	Closed	9/30/13	Intellectual Property	Revision to contract regarding intellectual property language.
Dissemination (FDA)	2	Closed	2/15/14	Website	FDA Personnel cannot connect to www.missingdatamatters.org from their office computers.
Software (JHU)	1	Closed	3/15/14	Coverage of Confidence Intervals	Simulations indicate that standard procedures for constructing confidence intervals are not providing adequate coverage with typical sample sizes.
Computing (JHU)	1	Closed	4/21/14	Periods of slow performance of computing cluster	A new computing cluster was installed at Johns Hopkins. We are experiencing periods of slow performance on the cluster.
Personnel (JHU)	1	Closed	5/21/14	Re-Distribution of Effort	Starting April 1, Aidan McDermott has reduced his percent effort by 20%. Chenguang Wang joined the project starting July 15.
Invoicing (FDA)	1	Open	6/6/14	Payment of Invoices	Invoices have not been paid.
Computing (FDA)	1	Open	6/6/14	Software on FDA Cluster	Investigate the steps needed to run software on FDA cluster

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Other Activities	
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Attachments and References	