## **Monthly Program Status Report - PROJECT**

Reporting Period:	October 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@jhu.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		Schedule		Resources		Deliverables	
Notes ►	Within Budget		On Schedule		Adequate		On Target	

Budget	Budget Tracking – (TOTAL CONTRACT CEILING)						
	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	\$660,409.16 (*\$336,775.45) committed)	\$434,155.84	\$299,208.35	Salary, fringe, other expenses, and indirect costs

## **Activity Summary and Highlights**

Over the last month, we have been building R and SAS interfaces for the Windows version of our software. We continued work on the draft of the manuscript. We also continued to develop a methodology for analyzing studies with intermittent missing data. We met with collaborators to identity additional datasets to illustrate our methods. Finally, we have been building a website for advertising and enrolling participants for our January 12, 2015 short course.

Key Accomplishments							
Current Reporting Period	Planned for Next Period						
<ul> <li>Worked on R and SAS interface for Windows version of software.</li> <li>Edited draft of manuscript</li> <li>Worked on methodology for intermittent missing data.</li> <li>Identified additional datasets to illustrate software.</li> <li>Worked on website for January 12, 2015 short course</li> </ul>	<ul> <li>Initiate the Forum option on Website</li> <li>Expand membership on Website</li> <li>Develop Windows-based version of software</li> <li>Develop a less computationally intensive confidence interval procedure.</li> <li>Finish and submit manuscript</li> <li>Work on methodology for intermittent missing data</li> </ul>						

Issues and Risks							
Category	regory Prior Status Opened		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		

## **Other Activities**

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## **Attachments and References**

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