Monthly Program Status Report - PROJECT

Reporting Period:	September 2016				
Contracting Agency:	Food and Drug Administration (FDA)				
FDA Project Manager:	Shaila Shaheed, <u>Shaila.Shaheed@fda.hhs.gov</u> , Thomas Permutt, <u>thomas.permutt@fda.hhs.gov</u> ,				
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)								
POP	Ceiling Remaining	Cumulative Funding	Year Funding (Year 1)	Spent to Date	Year Funding Remaining	Month Invoice	Funding Covers		
Base	\$1,094,565	\$1,094,565	\$1,094,565	\$1,088,681.17 (\$119,732.72 committed)	\$5,883.83	\$935,179.59	Salary, fringe, other expenses, and indirect costs		

Activity Summary and Highlights

Our *Biometrics* submission received an excellent review (acceptable for publication subject to minor revisions). We worked on revising the manuscript. We gave a 3 hour ASA webinar. We worked on the SAS procedure that extends SAMON to handle missing data prior to dropout. We are currently improving the documentation associated with the most recent versions of SAMON.

Key Accomplishments						
Current Reporting Period	Planned for Next Period					
Work on revisions to <i>Biometrics</i> paper	Revisions to <i>Biometrics</i> paper					
Completed SAS procedure	 Complete the improved documentation 					
 Worked on improving documentation 	• Submit Clinical Trials manuscript					
	 Complete write-up of case studies 					

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	Closed	6/6/14	Payment of Invoices	Invoices have not been paid.	
Computing (FDA)	1	Closed	6/6/14	Software on FDA Cluster	Investigate the steps needed to run software on FDA cluster	
Personnel (JHU)	1	Closed	1/13/15	New Effort	Yi Lu joined the project to work on confidence intervals.	
Software (JHU)	1	Closed	6/15/16	Coverage of Confidence Intervals	Simulations indicate that standard procedures for constructing confidence intervals are not providing adequate coverage with typical sample sizes.	
Funding	1	Open	9/15/16	No Cost Extension	There will approximately \$125,000 of unspent by the end of the project period.	

Other Activities		

JOHNS HOPKINS UNIVERSITY

Attachments and References						