Monthly Program Status Report – PROJECT

Reporting Period:	November 2016				
Contracting Agency:	Food and Drug Administration (FDA)				
FDA Project Manager:	Shaila Shaheed, <u>Shaila.Shaheed@fda.hhs.gov</u> , <u>Thomas Permutt</u> , <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	\$1,088,708.28 (\$110,482.80 committed)	\$5,856.72	\$960,163.72	Salary, fringe, other expenses, and indirect costs	

Activity Summary and Highlights
We worked on revising the <i>Biometrics</i> manuscript.

JOHNS HOPKINS UNIVERSITY

Key Accomplishments						
Current Reporting Period	Planned for Next Period					
Work on revisions to <i>Biometrics</i> paper	 Revisions to <i>Biometrics</i> paper Submit <i>Clinical Trials</i> manuscript Complete write-up of case studies 					

Issues and Ri	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	Closed	9/15/16	No Cost Extension	There will approximately \$125,000 of unspent by the end of the project period.		

Other Activities		

Attachments and References

Deliverable	Due Date
Allow SAMON to handle negative and non-integer values	
Allow SAMON to handle missing values coded as NA	New Release on
Change the syntax in SAMON so the dropout model parameters are denoted by H instead of	3/1/2017
P and the outcome model parameters are denoted by F instead of Q.	
Change SAMON to output confidence intervals of levels other than 95%	
Allow SAMON to handle more flexible exponential tilting functions	
Revise <i>Biometrics</i> manuscript to address reviewer comments.	12/31/16
Submit SAMON case study manuscript to Clinical Trials or Statistics in Medicine.	1/31/17
Submit manuscript that describes the partial imputation procedure for handling missing data	3/31/17
prior to drop-out.	

Yellow items are completed.