Monthly Program Status Report – PROJECT

Reporting Period:	April 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> ,					
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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	\$962,894.82 (\$138,814.06 committed)	\$131,670.19	\$798,147.70	Salary, fringe, other expenses, and indirect costs	

Activity Summary and Highlights

We worked on a revision of SAMON manuscript which we plan to submit to *Clinical Trials*. We worked on non-monotone missing data software package and completed another case study.

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Key Accomplishments							
Current Reporting Period	Planned for Next Period						
 Worked on <i>Clinical Trials</i> manuscript Worked on non-monotone missing data software package. Completed another case study for non-monotone missing data. 	 Submit <i>Clinical Trials</i> manuscript Non-monotone missing data software package. Finish Youtube video 						

Issues and Risks							
Category Prior ity St		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		
Personnel (JHU)	1	Open	1/13/15	New Effort	Yi Lu joined the project to work on confidence intervals.		

Other Activities	

Attachments and References		

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Upcoming Short Courses/Webinars

- May 24 (12-2): American Statistical Association Biopharmaceutical Section Webinar
- June 22 (8:30-5) Johns Hopkins University Summer Institute in Epidemiology and Biostatistics, Baltimore, MD
- July 26 (8:30-5) University of Washington Summer Institute in Statistics for Clinical Research, Seattle, WA
- October 26-28 BASS Conference, Rockville, MD

Status of Milestones

- 4: Create Non-Monotone Missing Data Product (due 9/15/16, on schedule)
 - o 4.3: SAS implementation (due 6/30/16, on schedule)
 - o 4.4: R Implementation (due 6/30/16, on schedule)
 - o 4.5: Two Case Studies (due 6/30/16, on schedule)