

**Monthly Program Status Report – PROJECT**

<b>Reporting Period:</b>	<b>July 2015</b>
<b>Contracting Agency:</b>	Food and Drug Administration (FDA)
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<b>Contract / Order:</b>	HHSF223201310230C
<b>Contractor PI:</b>	Daniel Scharfstein, <a href="mailto:dscharf@jhu.edu">dscharf@jhu.edu</a> , 410-955-2420
<b>Project Team:</b>	Aidan McDermott (Computer Programmer)
<b>Description of Activity:</b>	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.

<b>Project Health Check</b>						
Health ▶	Budget	Schedule	Resources	Deliverables		
Notes ▶	Within Budget	On Schedule	Adequate	On Target		

<b>Budget Tracking – (TOTAL CONTRACT CEILING)</b>							
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	\$624,287.47 (\$52,299.64 committed)	\$470,277.53	\$506,738.50	Salary, fringe, other expenses, and indirect costs

<b>Activity Summary and Highlights</b>
We completed a draft of a manuscript, which we plan to submit to the <i>Journal of American Statistical Association</i> within the next month. We posted a new R version of SAMON.

Key Accomplishments	
Current Reporting Period	Planned for Next Period
<ul style="list-style-type: none"> <li>Completed draft of manuscript</li> <li>Updated R version of SAMON to incorporate confidence interval procedures</li> </ul>	<ul style="list-style-type: none"> <li>Develop SAS version of software</li> <li>Implement intermittent missing data methods</li> <li>Submit manuscript</li> </ul>

Issues and Risks					
Category	Priority	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 <a href="http://www.missingdatamatters.org">www.missingdatamatters.org</a> 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