

## **Boilerplate language for REDCap usually for grants or IRB protocols**

We plan to use REDCap for data capture and management. REDCap (Research Electronic Data Capture) is a software toolset and workflow methodology for electronic collection and management of research and clinical trial data [REFS: 1,2]. REDCap provides secure, web-based flexible applications, including real time validation rules with automated data type and range checks at the time of entry. Exports are made available for several statistical packages including SPSS, SAS, SATA, R and Microsoft Excel.

### **[IF SURVEY'S NEEDED:]**

The system allows the research team to create and design online surveys and engage respondents using a variety of notification methods.

### **[IF SHARED INSTRUMENTS WILL BE USED:]**

REDCap data dictionaries can be distributed for reuse at multiple institutions. A library of data dictionaries is made available for standards-based data collection forms and validated instruments [REF: 3.]

### **[SECURITY:]**

The underlying database is hosted in a secure data center at MUSC, a secure environment for data systems and servers on campus, and includes redundancy, failover capability, backups and extensive security checks.. The system has several layers of protection including, user/group account management, "Data Access Groups" which allow data to be entered by multiple groups in one database with segmented user rights for entered data, audit trails for all changes, queries and reports, and Secure Sockets Layer (SSL) encryption.

## **Publications/Proceedings/Presentations:**

<sup>1</sup> P.A. Harris, R. Thielke, R. Taylor, J. Payne, N. Gonzalez, J.G. Conde. Research Electronic Data Capture (REDCap) - A metadata-driven methodology and workflow process for providing translational research informatics support. *Journal of Biomedical Informatics*, 2008 (doi:10.1016/j.jbi.2008.08.010).

<sup>2</sup> P. Harris, R. Thielke, R. Schuff, J. Obeid, M. Oium. The REDCap consortium - A case study in translational research informatics resource sharing among academic institutions. (AMIA Spring Conference, 2007)

## **If you used the REDCap Shared library we recommend this reference:**

<sup>3</sup> Obeid JS, McGraw CA, Minor BL, Conde JG, Pawluk R, Lin M, Wang J, Banks SR, Hemphill SA, Taylor R, Harris PA. Procurement of shared data instruments for research electronic data capture (REDCap). *Journal of Biomedical Informatics*. 2012: In press. DOI: 10.1016/j.jbi.2012.10.006

## **CTSA grant acknowledgement:**

This publication [or project] was supported by the South Carolina Clinical & Translational Research (SCTR) Institute, with an academic home at the Medical University of South Carolina, through NIH Grant Numbers UL1 RR029882 and UL1 TR000062.