

Optimizing Study Management Using



A secure web application for building and managing surveys and databases

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Developmental and Behavioral Pediatrics (DBP)

Professional Development Luncheon for Faculty and Fellows

Department of Pediatrics

April 5, 2013

Presentation Outline

REDCap Overview and OUHSC History

Scenarios Favoring REDCap

Reports for Project Management

Reports for Outcomes

Overall Goals

Document Version Control

Security Practices

REDCap overview (<http://project-redcap.org/>)

- Secure web application for building and managing surveys and databases.
 - Developed by informatics core at Vanderbilt with support from NCRR and NIH.
 - Designed for academic biomedical researchers.
- Provides:
 - A centralized, back-end storage component.
 - Tools to create an interactive front-end html GUI.
 - An API to import & export data.
 - Example templates.
 - Instructional videos for training.
 - User-group network of institutional researchers.
 - Also included: built-in project calendar, scheduling module, ad hoc reporting tools, and advanced features, such as branching logic, file uploading, and calculated fields.
- It can reduce
 - Developing a lot of new software applications.
 - Anxieties related to security of home-grown software.

REDCap Software Features

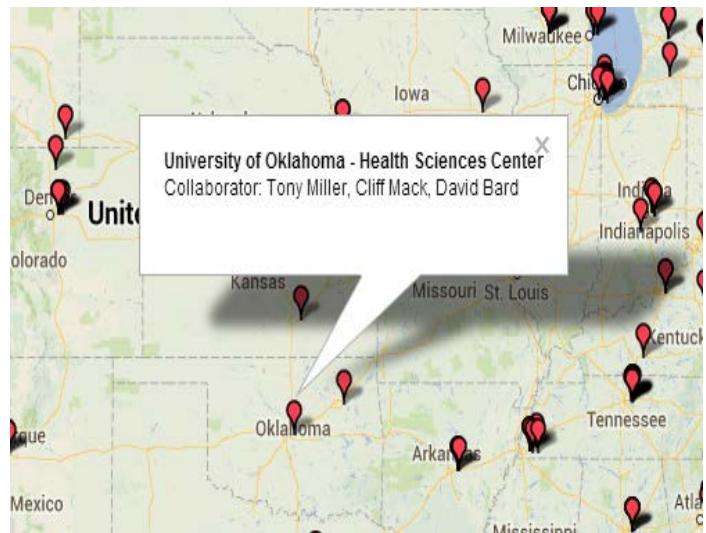
Availability - Software available at no cost for REDCap partners.

Secure and web-based - Input data or build online survey anywhere in the world over secure web connection with authentication and data logging.

Multi-site access - REDCap databases/surveys can be used by researchers from multiple sites and institutions.

OUHSC Becomes REDCap Partner

- MIECHV grant (DBP) requests REDCap (Nov. 2011)
 - IT installs “DBP” REDCap instance, ver.4 (Jan. 2012)
- New DBP projects move to REDCap (2012-2013)
- Campus REDCap interest rises (2012-2013)
 - IT installs “Enterprise” REDCap instance, ver.5 (Mar. 2013)
 - IT installs “Development box” instance, ver.5 (Apr. 2013)
- Governance body requested (Mar. 2013)
 - Governance body formed (Jun. 2013)
- Funding for REDCap admin requested (Apr. 2013)
 - College of Medicine agrees to fund Dev box and Enterprise instance (Jun. 2013)
- **REDCap freely available to all**



Motivation: MIECHV Collaboration

1. The 4 statisticians on the project.
sharing software development.
2. The 20+ people on the project (1/3 off-site).
exchanging participant-level data.
3. The 3 partnering organizations. (OSDH, WIC, OHCA)
-receiving their subject-level & agency-level data.
-distributing results –fresh & frequently.
4. Academics in different areas. (particularly at OUHSC)
exchanging tools and workflows.
5. Researchers in other states pursuing similar goals.
publishing ideas and replicating previous work.

REDCap Software Highlights

Built-in project Calendar

The screenshot shows a monthly calendar view for April 2013. Events are color-coded and include descriptions such as "Initial Interview", "Two-day Follow-up", "Four-day Follow-up", and "Six-day Follow-up". Some events have multiple entries, indicating recurring or follow-up appointments.

Built-in Export Formats

The screenshot displays a page titled "Data Analytics Core Demo: Data Entry Forms" under the "Data Export Tool" section. It lists export formats for different software: Microsoft Excel, SPSS Statistical Analysis Software, SAS Statistical Software, R Statistical Software, and STATA Analysis and Statistical Software. Each section provides instructions on how to download and use the tool.

Scheduling Module (Define Events)

	Event #	Days Offset	Offset Range Min / Max	Event Name	Unique event name (auto-generated)
	1	0	-0/+0	Initial Interview	initial_interview_arm_1
	2	2	-0/+0	Two-day Follow-up	twoday_followup_arm_1
	3	4	-0/+0	Four-day Follow-up	fourday_followup_arm_1
	4	6	-0/+0	Six-day Follow-up	sixday_followup_arm_1
Add new event		Days	-0 +0		
Convert from other units					
Descriptive name for this event					

(Assign Instruments)

[Begin Editing](#) [Save](#)

Data Collection Instrument	Events			
	Initial Interview (1)	Two-day Follow-up (2)	Four-day Follow-up (3)	Six-day Follow-up (4)
Survey	✓	✓	✓	✓

(Schedule Participant)

The screenshot shows a form for scheduling a participant. It includes fields for "Add new Participant ID" (with a dropdown for "choose existing unscheduled"), "Start Date" (set to 04/18/2013), and a "Generate Schedule" button.

Projected Schedule for "2" (NOTE: The dates below have NOT yet been scheduled.)

The projected schedule below was automatically generated for Participant ID "2" based on your pre-defined Events. You may change the value of any dates generated below simply by clicking inside the date box and selecting a new date. Any dates generated below that fall on weekends will be listed in red. Click the Create Schedule button to finalize this schedule, which will then be added to the Calendar.

Time (optional)	Date / Day of Week	Event Name
	04/18/2013 Thursday	Initial Interview
	04/20/2013 Saturday	Two-day Follow-up
	04/22/2013 Monday	Four-day Follow-up
	04/24/2013 Wednesday	Six-day Follow-up

[Create Schedule](#) [Cancel](#)

NOTE: Closing the Create Schedule button will additionally add "2" as a new Participant ID.

REDCap Project Types

<https://redcap1.mayo.edu/redcap/index.php?action=training>

1. Traditional Database

classic model

2. Parent-Child Linking

linking together multiple databases

3. Operations

use case for non-study/non-trial

4. Longitudinal Database

multi-use forms with time points

REDCap Front-End Data Entry

- You have 2 options
 - Survey-based data entry
 - “Prettier” interface
 - Public and private audience options
 - Email tracking system
 - Form-based data entry
 - One-stop shop for data entry, scheduling, and data management
 - Familiar interface, resembles most form-based database software (e.g., MS Access)

Brief REDCap Demo

- How to design a REDCap project
 - Online demonstrations
 - <http://www.project-redcap.org/videos.php>
 - Templates and demos inside each REDCap instance
 - REDCap google group FAQ
- Survey project demo
- Form project demo (cross-sectional and longitudinal)
- If time permits
 - REDCap project for managing all research projects
 - Quality improvement operational database
 - Relational database tricks

Example: Survey-based Data Entry

- Login to DBP REDCap (all instances use OUHSC username and password authentication)
- Go to My Projects and select DataAnalytics Core Demo: Survey
 - Click “Open Survey” button
 - Click “Invite Participants” link, then “Open public survey”
 - Notice url
 - Click “Invite Participants”, then “Add participants”
 - Add email address then click “Send Survey Invitations”

Example: Survey-based Data Entry

The screenshot shows an Outlook email window with the following details:

Subject: [REDCap] Your survey link for forwarding to participants - Message (HTML)

From: Bard, David E. (HSC)
To: Bard, David E. (HSC)
Cc:
Subject: [REDCap] Your survey link for forwarding to participants

Sent: Tue 6/11/2013 9:54 AM

[This message was automatically generated by REDCap]

You may open the survey in your web browser by clicking the link below:
[REDCap Demo Survey](#)

If the link above does not work, try copying the link below into your web browser:
<http://miechvprojects.ouhsc.edu/redcap/surveys/?s=nYxhle>

Click on a photo to see social network updates and email messages from this person.

The email window includes standard Outlook ribbon tabs like File, Home, Insert, Page Layout, Design, and Tell Me What You Want. The Home tab is selected, showing icons for Ignore, Delete, Reply, Forward, and More. The ribbon also displays "Adobe PDF" and "Message". The ribbon has a "Quick Steps" dropdown menu.

Example Form-based Data Entry

Editing existing Study ID c

Event Name: **Event 1**

Study ID

Study ID (H) c
(To rename this record, modify the value immediately below.)

Referral Source

TANF (checkbox)
Self (checkbox)
WIC (checkbox)
Medicaid (checkbox)
Other (checkbox)

Has this individual taken the interview?

Yes (radio button) (H) c
No (radio button)

[reset value](#)

Which data collector?

Geneva (radio button)
Nicole (radio button)
La Chanda (radio button) (H) dc4
dc5 (radio button)
dc6 (radio button)

[reset value](#)

Was this participant referred by someone?

Yes (radio button) (H) c
No (radio button)

[reset value](#)

If yes, enter the participant id of the person who made the referral.

(H) [text input field]

Are the consent forms scanned?

Yes (radio button) (H) c
No (radio button)

[reset value](#)

This section of the survey is to be filled out by the data collector. The following questions are about the individual who is participating in this survey. Provide as much detail as possible when completing this section of the survey.

Social Security # (H) [text input field]

Medicaid # (H) [text input field]

First Name (H) [text input field]

Last Name (H) [text input field]

Nickname (H) [text input field]

Alternate name (H) [text input field]

Date of Birth (H) [text input field] Today M-D-Y

Gender (H) [dropdown menu]

Thomas' Data Entry Demonstration

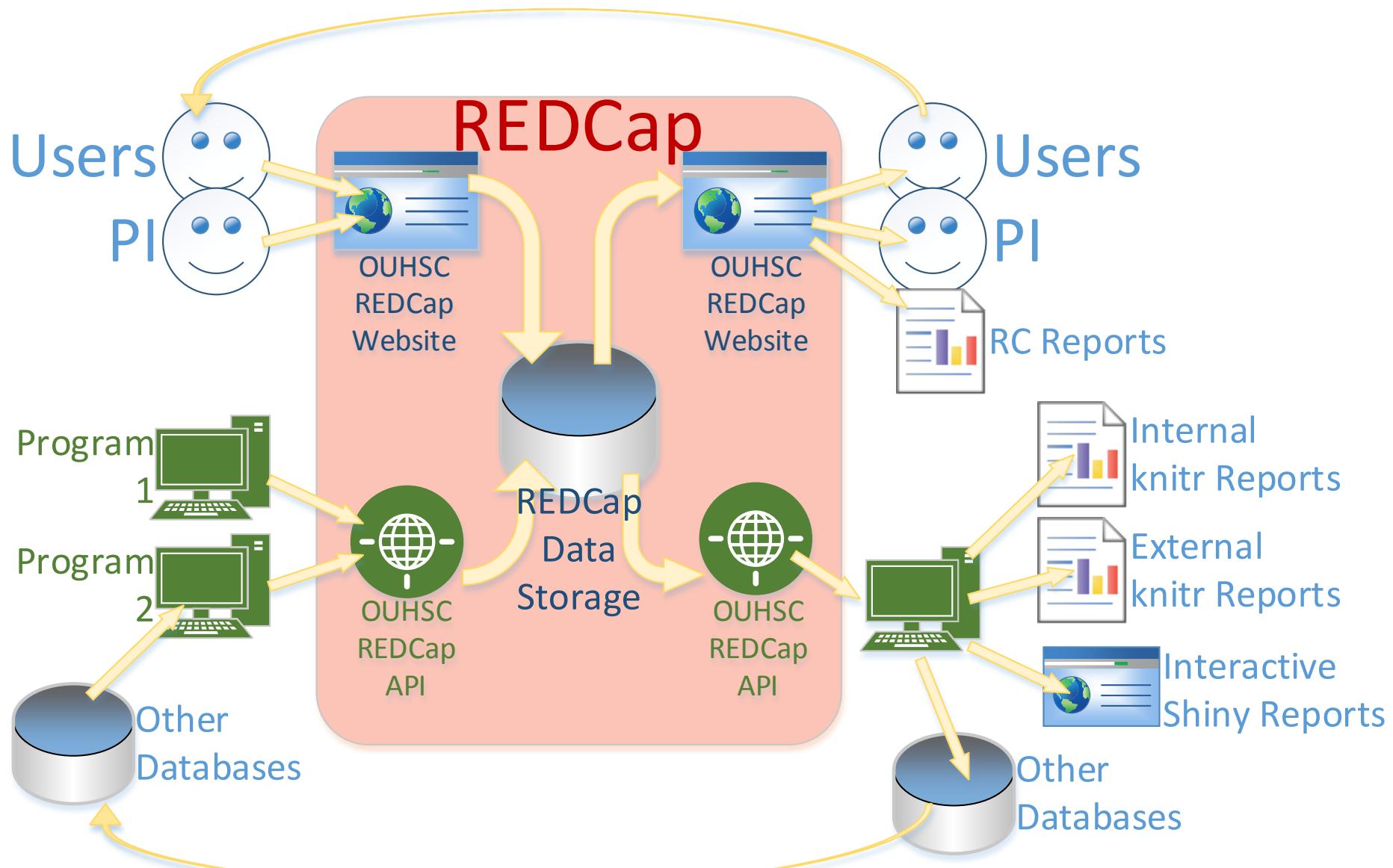
1. Go to <https://zzzzzzzz.ouhsc.edu/>
2. Login
3. Select project “testing123”
4. Enter some more test data
5. Create a calendar entry

(Note: the exact address has been changed for security purposes.)

Data Dictionary Demos

- Can create an entire project by uploading pre-existing data dictionary .csv file
 - Click “My Projects” and select ‘DATAnalytics Core Demo: Data Dictionary Upload’
 - Click “Upload Data Dictionary” button and select dictionary file
- Change existing field using data dictionary
 - Click “Project Setup” button, then “Upload Data Dictionary”
 - Select new dictionary file and “Commit Changes”
- Add new fields using data dictionary
 - Same as change existing fields

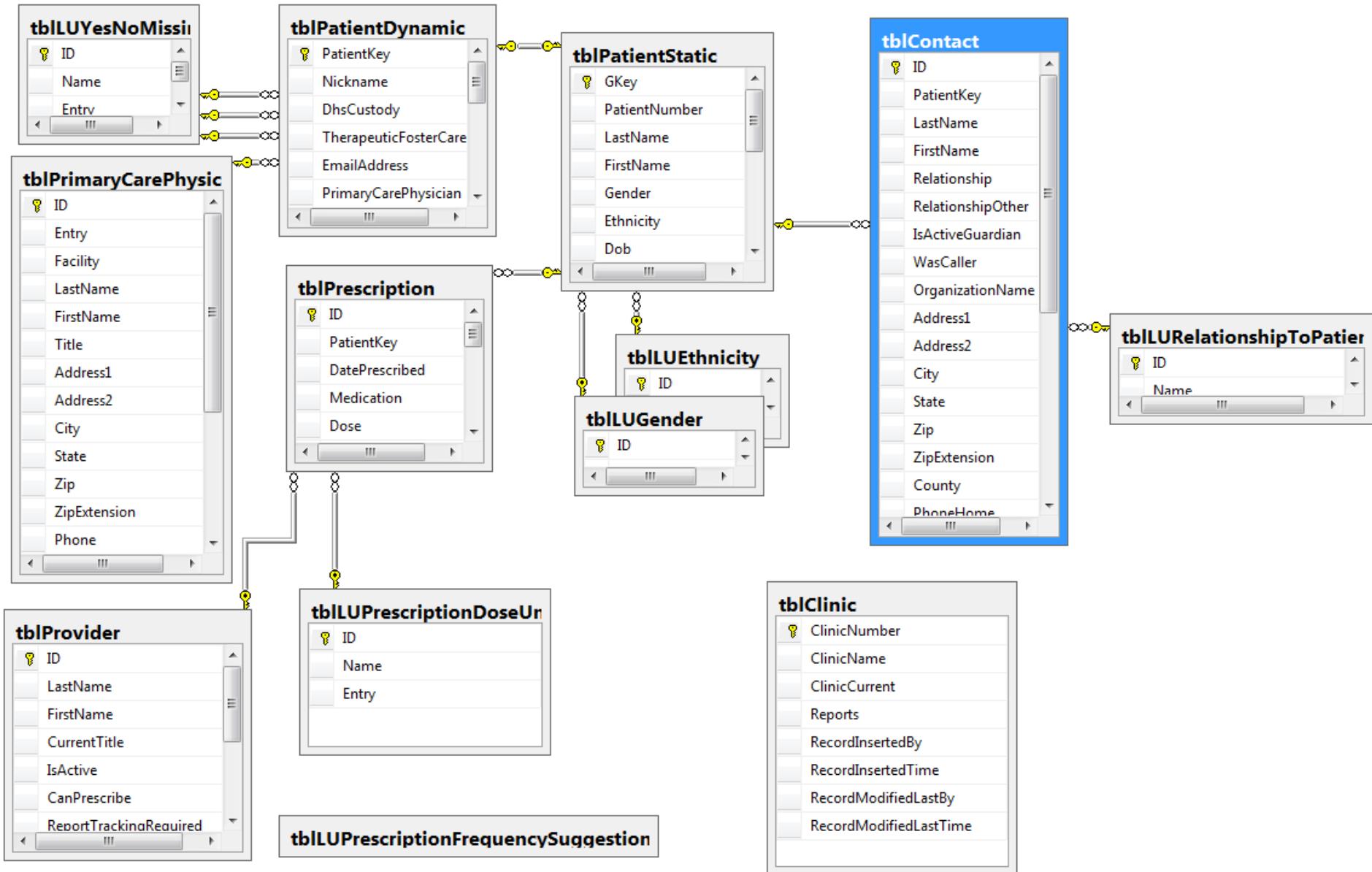
Possible REDCap Workflows



Scenarios Favoring REDCap

- Project requires a centralized data store, but multiple locations for data entry.
 - Avoid syncing different locations manually.
- You want a flexible, universal framework to create consistent data systems for multiple clinical projects (research and possibly operations).
 - Reduces your development time & your staff's training time.
 - Reduces writing new text for grant proposals and IRB?
- Project has a relatively flat data structure.
 - Typically accommodates 2 or 3 levels well, but is clumsy beyond that. County, Practice, Provider, Patient, Time, Family.

Scenario NOT favoring REDCap



Scenarios Favoring REDCap

- No professional software developer on the project
 - There's nothing magical about REDCap; it accommodates the designs and needs of many clinical projects.
 - To develop a comparable system from scratch, you'd need experience with several technologies.
- There are lots of dimensions and trade-offs when designing clinical research, and REDCap is **close to the sweet spot** for most designs.
- Candidate for replacing Access, Survey Monkey, Excel.

Project Management with REDCap

While the original intent of the development of REDCap was to provide researchers with a secure web application for research, a REDCap project can be designed to simultaneously aid in project management and productivity monitoring.

Productivity Monitoring

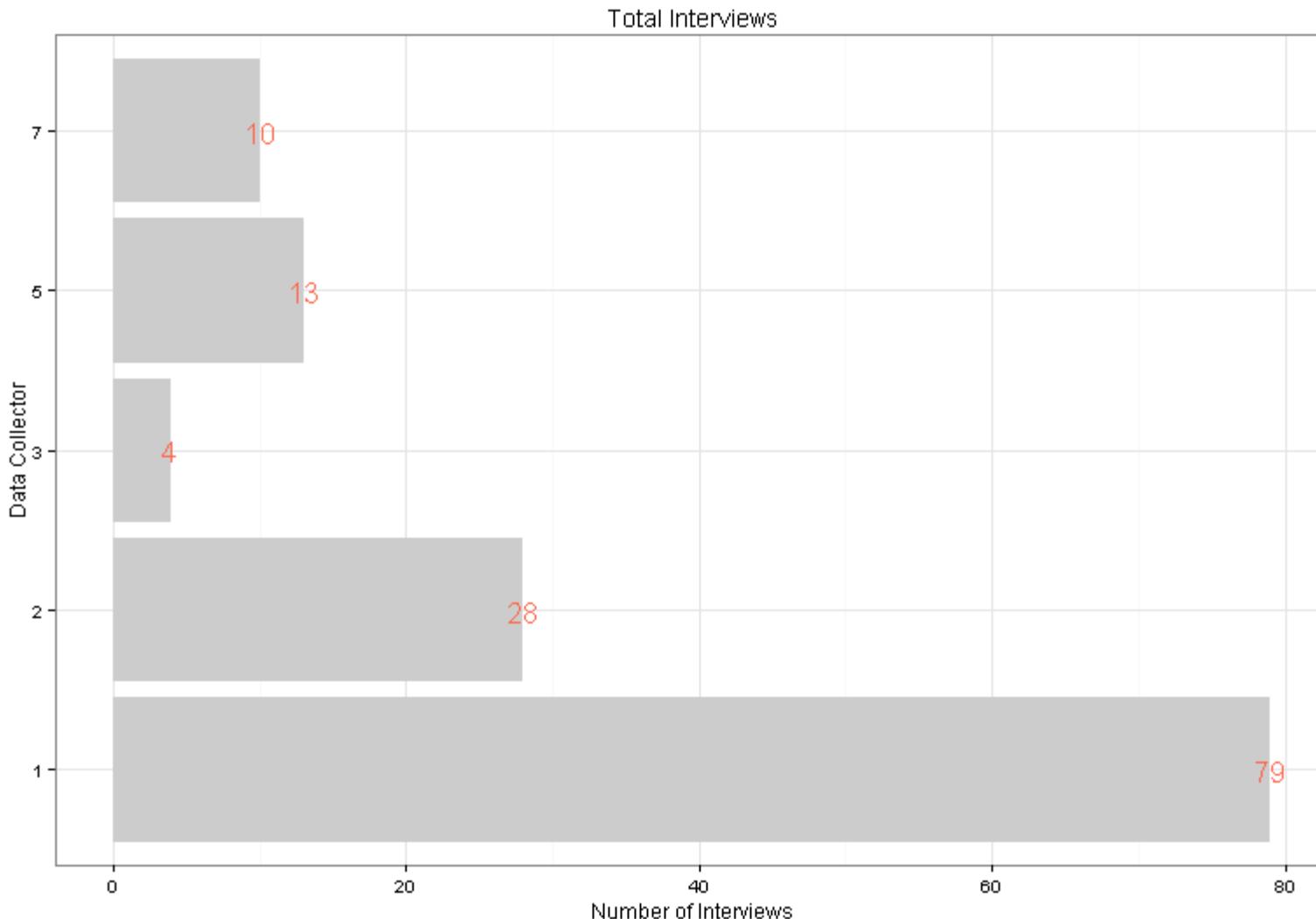
What do you want to monitor?

Productivity indicators can be incorporated in the original design phase of a REDCap project, or added to an existing project.

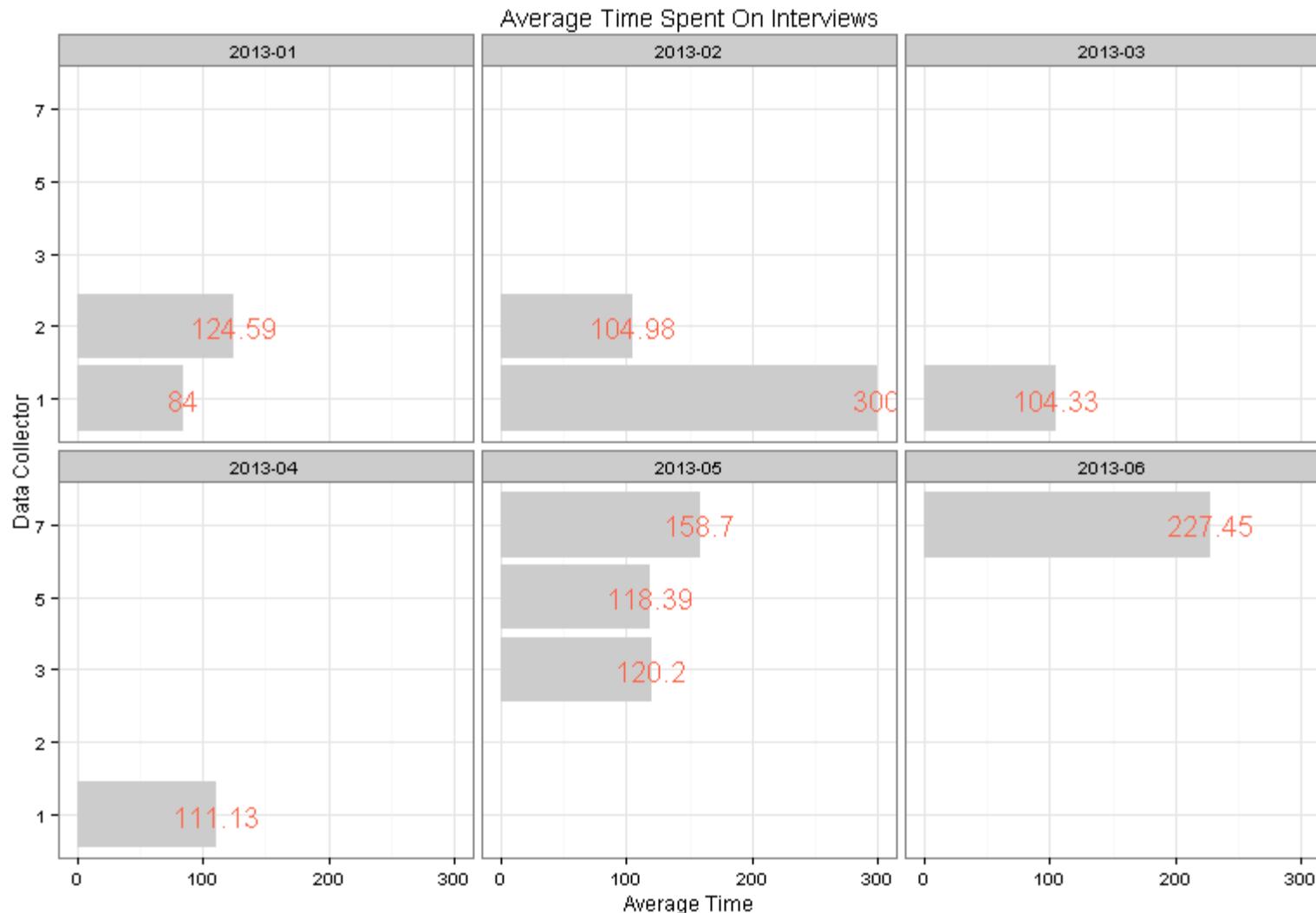
MIECHV Project Productivity Indicators

- Community Survey Recruitment
 - Total recruitment calls made
 - Time spent on recruitment calls
 - Average time per recruiting call
 - Number of recruits who agreed to participate
 - Percent of recruits who agreed to participate
- Community Surveying
 - Total interviews completed
 - Time spent conducting interviews
 - Average time per interview

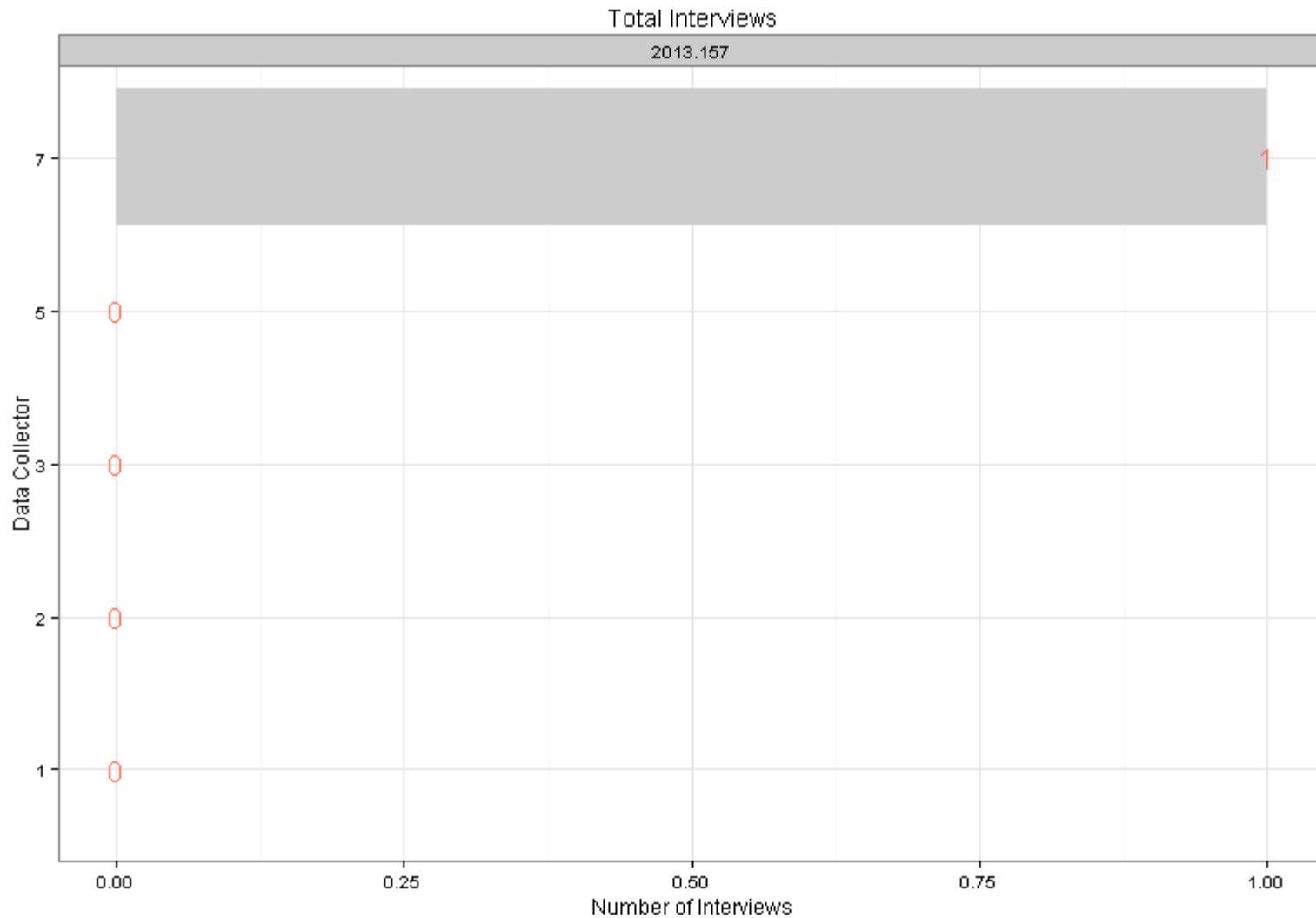
Example Report (Project Aggregate)



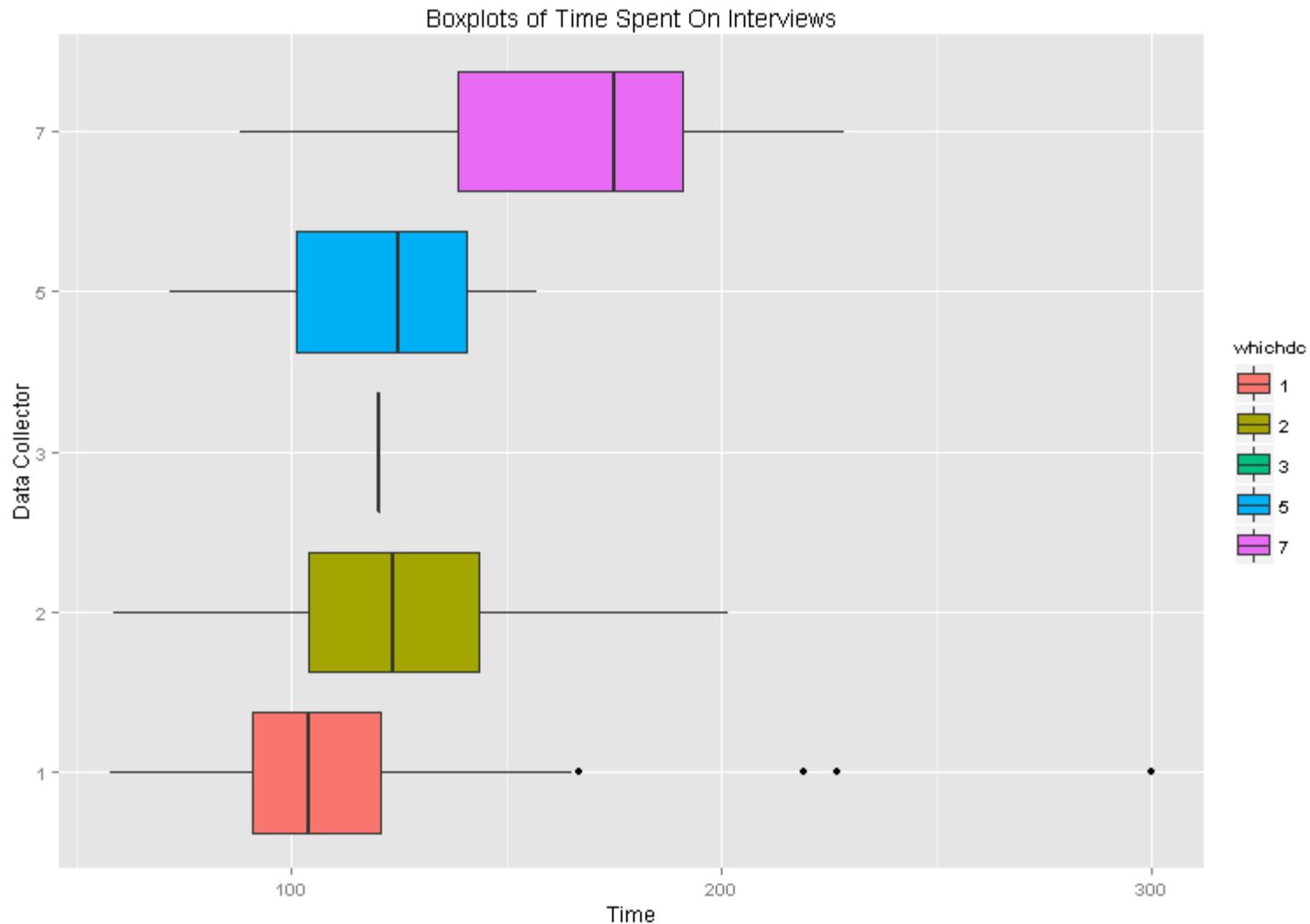
Example Report (6 Month History)



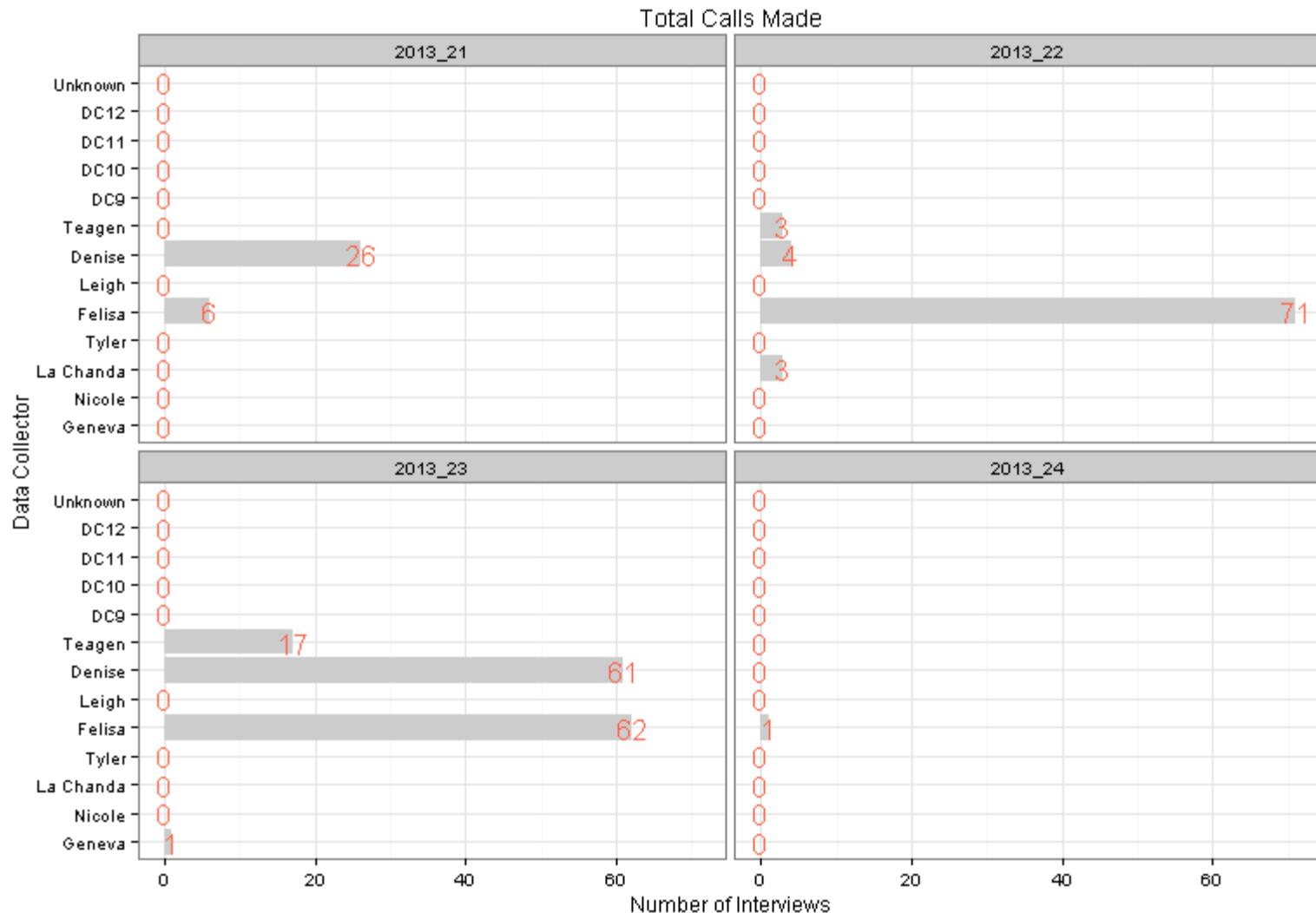
Example Report (7 Day History)



Example Report (Project Aggregate)



Example Report (4 Week History)



REDCap Advantages

- Flexibility:
 - Productivity indicators established by project team
 - Reporting methods determined by project needs
 - All aspects are customizable
 - Current and historical reports
- Automated:
 - Not necessary to compile data
 - Real-time data availability

Reports for Outcomes: within REDCap

Accommodates basic
descriptives & graphs,
but not much more.

Number of results returned: 3

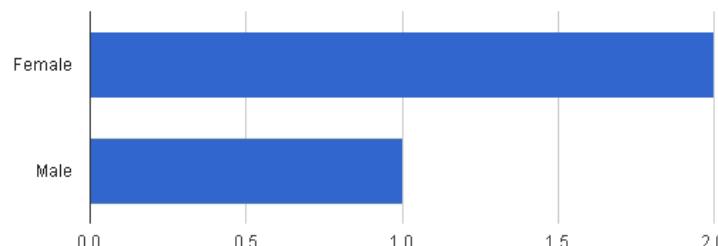
Total number of records queried: 12 ('records' =

PresentationDemo	
Ethnicity (ethnicity)	Gender (sex)
Non-Hispanic (1)	Female (0)
Hispanic (2)	Female (0)
Non-Hispanic (1)	Male (1)

Gender: [Refresh Plot](#) | [View as Bar Chart](#) ▾

Total (N)	Missing	Unique
3	9 (75%)	2

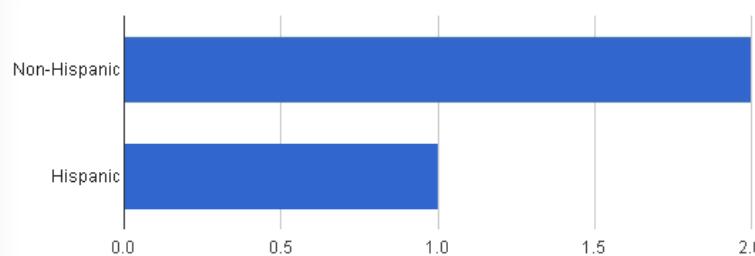
Counts/frequency: Female (2, 66.7%), Male (1, 33.3%)



Ethnicity : [Refresh Plot](#) | [View as Bar Chart](#) ▾

Total (N)	Missing	Unique
3	9 (75%)	2

Counts/frequency: Non-Hispanic (2, 66.7%), Hispanic (1, 33.3%)



Reports for Outcomes: External to REDCap

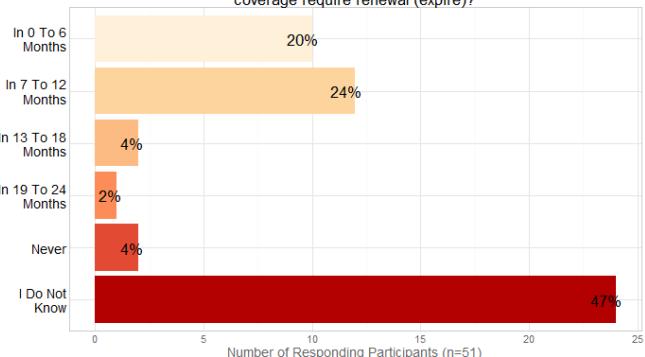
- Use automation to present results in a coherent document.
- Eliminate the need to repeatedly copy & paste:
 - Multiple descriptives, graphs, and model results.
 - Updated results after more data trickles in.
- Internal vs. External Audiences

Reports for Outcomes: Examples

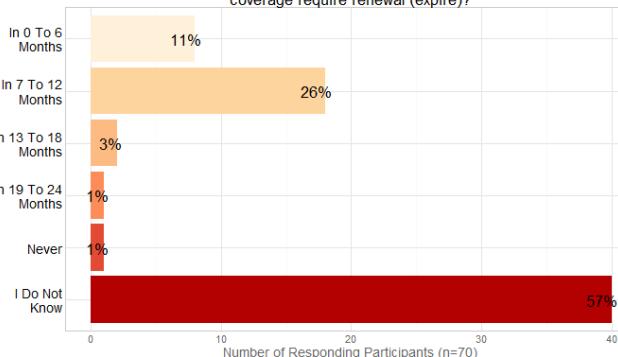
- Descriptives & graphs for internal audiences.
- Tables for external audiences.
- Text and Graphs for external audiences.
- Optionally hosted online.
<https://github.com/OuhscCcanMiechvEvaluation/MReporting/blob/master/OhcaReports/OhcaReport1/OhcaReport1.md>

Quick for Internal Audiences

When does your (not your child's) Medicaid/SoonerCare coverage require renewal (expire)?

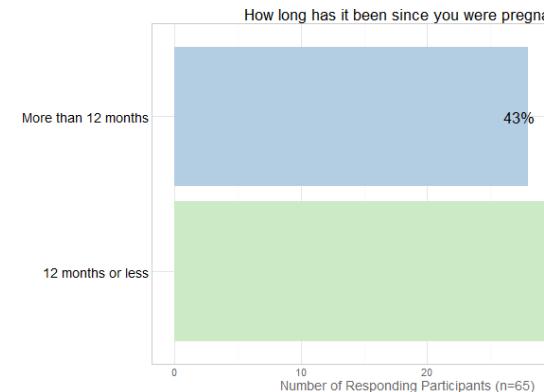
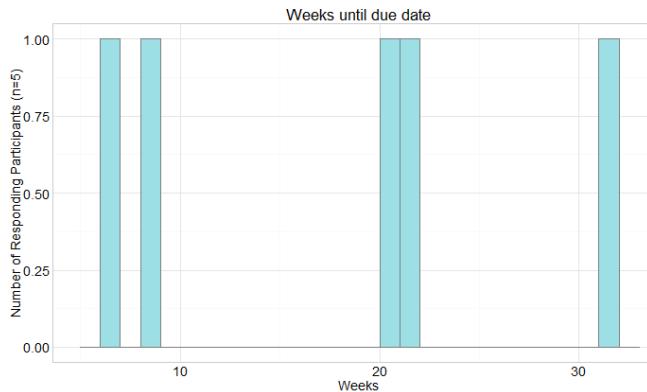
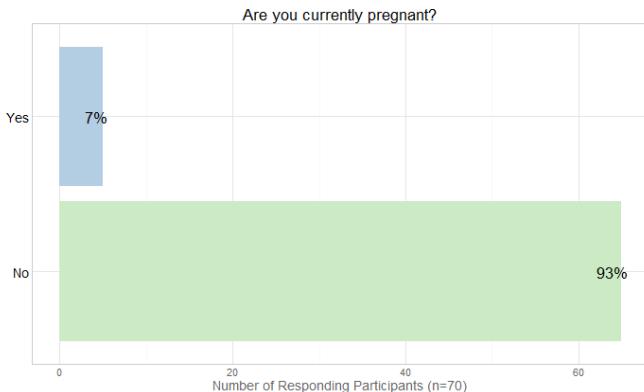


When does your child's Medicaid/SoonerCare coverage require renewal (expire)?

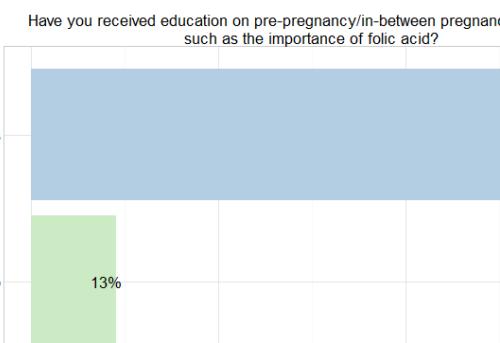


Section B: Pregnancy

Current and Previous Pregnancy



Prenatal Care and Education



Text and Graphs for External Audiences

Draft of C1 Activity Level Report

OUHSC External MIECHV Evaluation Team
David Bard, Will Beasley, & Thomas Wilson

March 21, 2013

Note: This is a draft, and does not represent the official results. One next step is to address potential redundant records, which we believe represent fewer than 10% of the existing records. A second step is to account for the referrals that come from a county without an established health department or C1 program. Currently the analysis considers all referrals equivalently, which biases down the activity level so it appears that the performance is worse than it actually is.

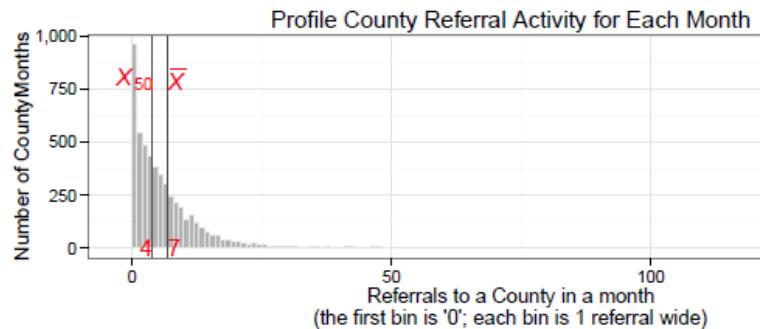
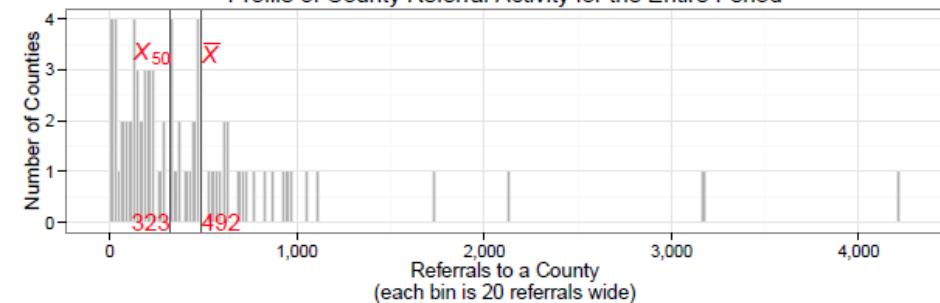
This report contains information from 74 counties, 86 clinics, 33,170 parents, 36,379 referrals, 5,936 enrollments, 641 recorded graduations, and 2,826 recorded nongraduations. It summarizes C1 referrals between January 02, 2007 and November 29, 2012. The 3 referrals received by the central OSDH office (i.e., ID #99) have been excluded.

1 Referrals

The first histogram looks at the number of referrals received by the different *counties* during the reporting period. The second histogram looks at the number of referrals received by the different *county months* during the reporting period. Notice the median and mean are annotated each with a darker vertical gray line; the median is on the left, the mean is on the right.

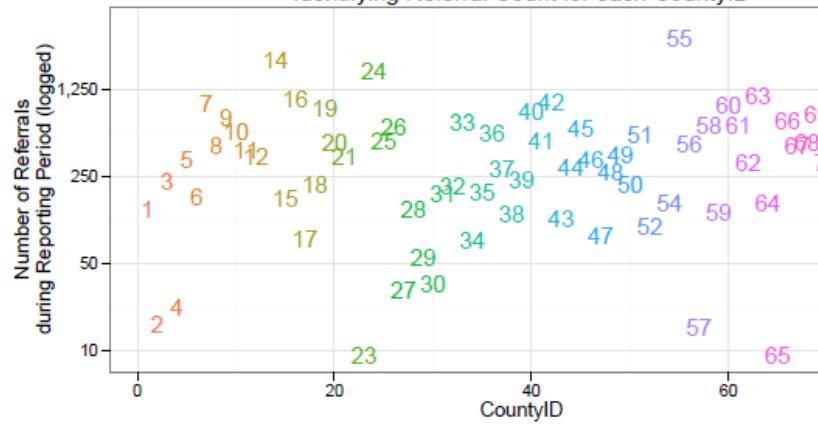
There are many months where a county received few referrals. Several sources of these zeros have been identified, and we are deciding how to most accurately represent them in various contexts. For instance, when analyzing the cost-effectiveness of C1, an understaffed county should be treated differently than an adequately staffed county. We soon will incorporate a county's operational dates and its specific funding and staffing levels.

Profile of County Referral Activity for the Entire Period



This scatterplot is atypical, because the horizontal is not a real quantitative dimension, it is the value of the month. The information is redundantly displayed by the numbers in the scatterplot. Notice the vertical is logged. Smaller counties will not be bunched together. This plot can serve as a legend for the subsequent line graphs. The county names corresponding to the numbers in the scatterplot corresponds to its color in the subsequent line graphs. The county names corresponding are decoded in the long table at the end of this document.

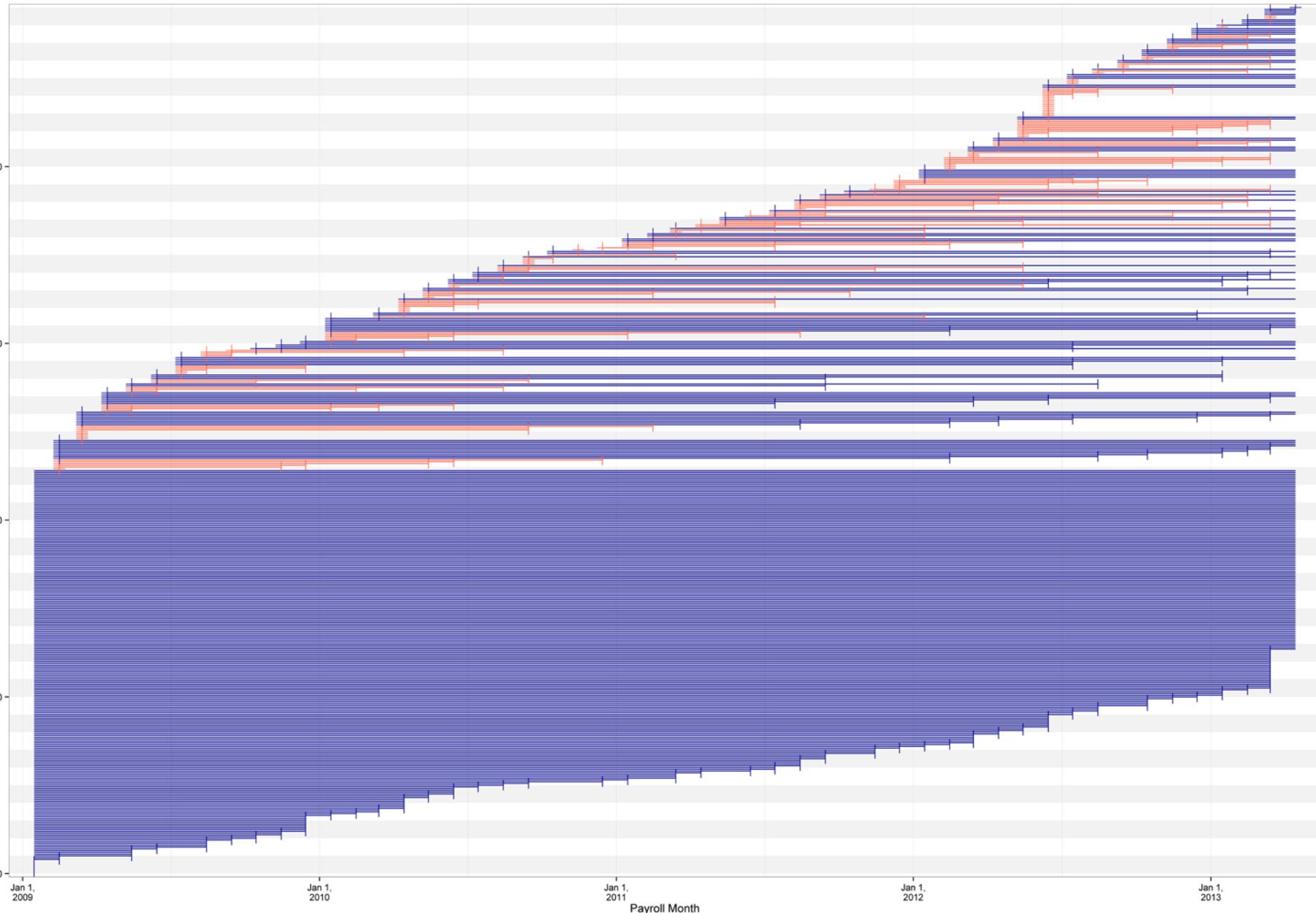
Identifying Referral Count for each CountyID



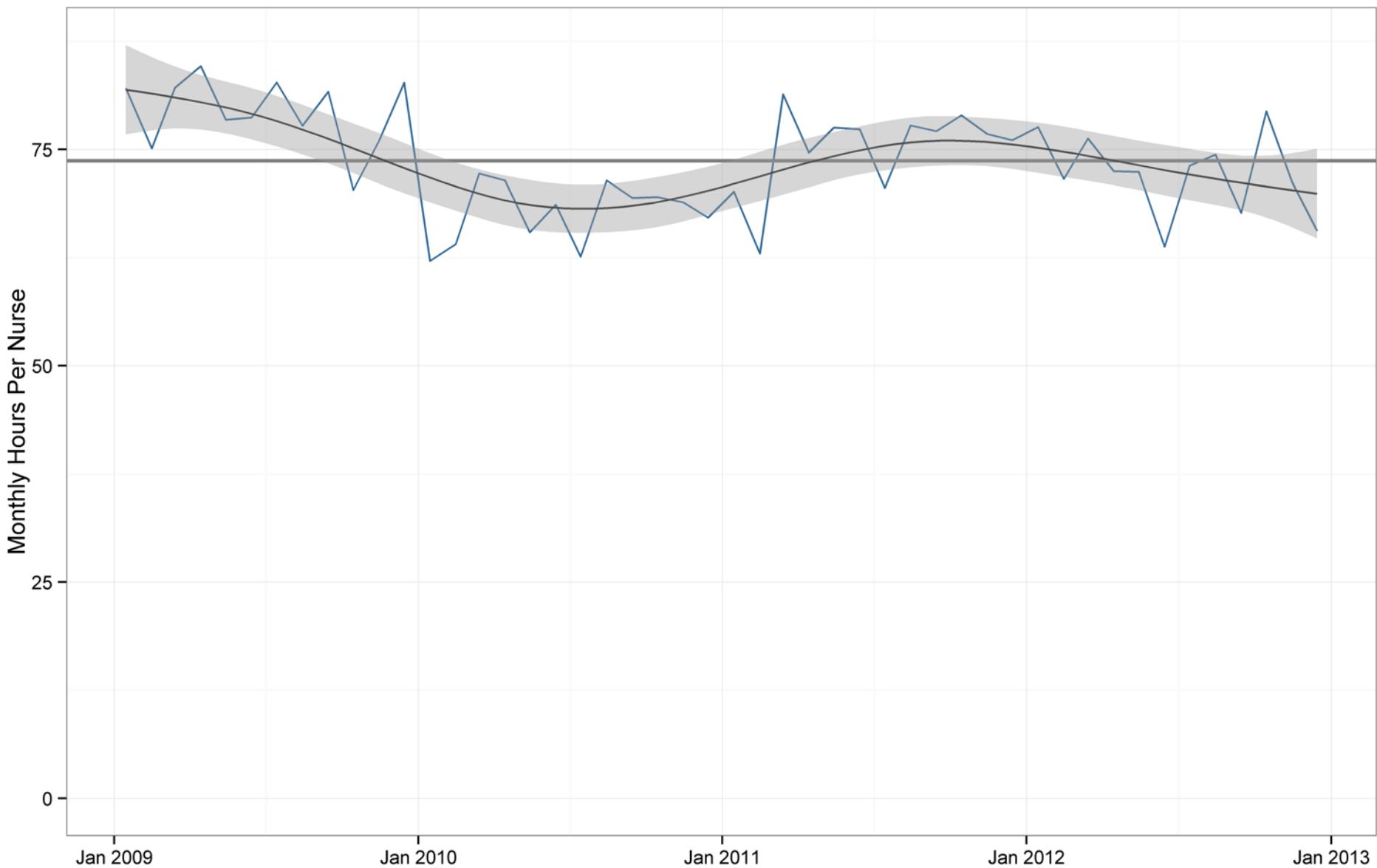
The next two graphs show the number of referrals received over time, by county. Each county has a unique ID. The numbers denote a month's 25%, 50% and 75% counts of referrals to a county. For instance, when the middle of a box is 50% of the counties received 7 referrals or fewer.

The gray lines appear again as the median (on bottom) and mean (on top). A curvy longitudinal line state's trend during the reporting period. The two graphs are identical, except the second one zooms in on the first 20 county IDs.

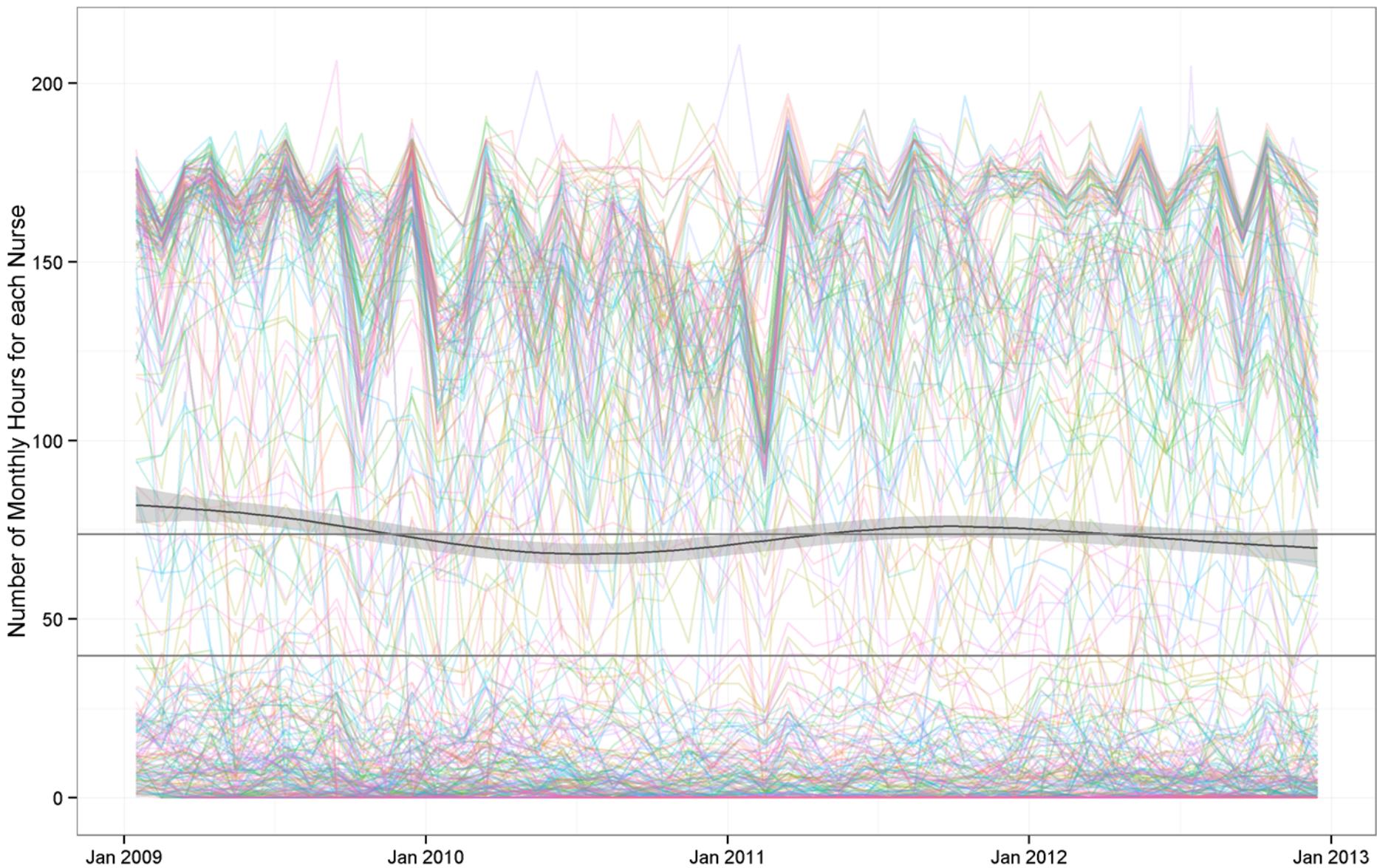
Text and Graphs for External Audiences



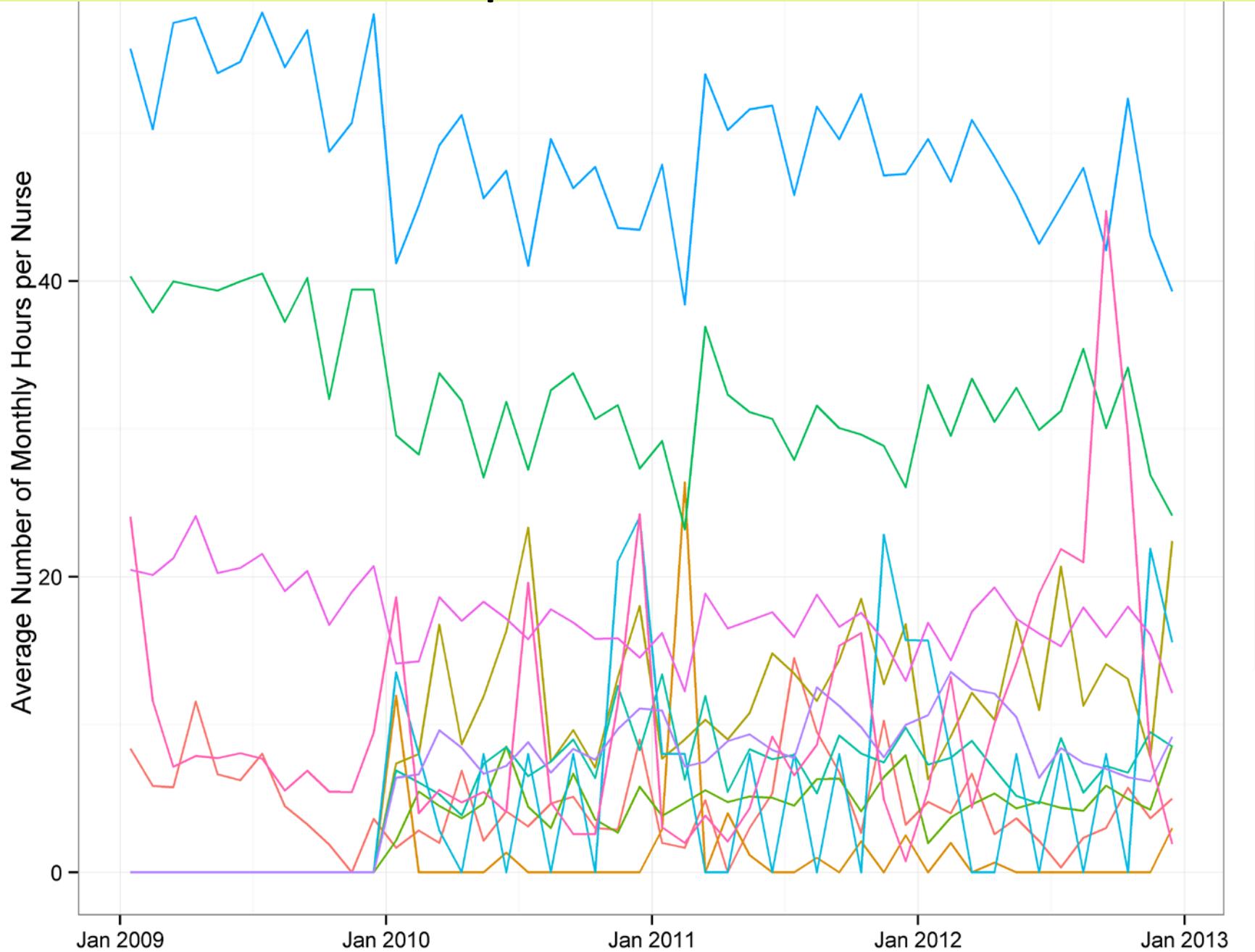
Text and Graphs for External Audiences



Text and Graphs for External Audiences



Text and Graphs for External Audiences



Tables for External Audiences

Comparison of Versions of Kinship Links Joe Rodger's BG Team

December 9, 2012

Outcome: HeightZGenderAge;
 RelationshipPath: Gen1Housemates [ID:1]; Newer Links Version: 53; Older Links Version: 52;
 Newer Links: R Excludes Gen1 R=0, .375, .75
 Older Links: After chaning 'R' to 'RFull'; Excludes Gen1 R=0
 R Groups specifically excluded: {}
 Drop pair if housemates are not confirmed in the same generation: FALSE

1 Ace - Comparison of *R* Variants

(See the final table for an explanation of the different *R* variants.)

<i>R</i> Variant	a_{new}^2	c_{new}^2	e_{new}^2	N_{new}	a_{old}^2	c_{old}^2	e_{old}^2	N_{old}
R	.90	.00	.10	3729	.90	.00	.10	3784
RFull	.50	.19	.31	4227	.50	.19	.31	4227
RExplicit	.78	.06	.16	3702	.78	.06	.16	3702
RImplicit2004	.75	.09	.16	2262	.75	.09	.16	2262

Table 1: Comparison of *R* Variants (by rows) and of Links Versions (left vs right side).

2 Subgroups – R

<i>R</i>	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.125	TRUE	88	0.91	0.95	0.15	0.16	0.8	TRUE
0.250	TRUE	238	1.01	1.14	0.26	0.24	1.1	TRUE
0.500	TRUE	3392	0.97	1.02	0.44	0.44	0.8	TRUE
1.000	TRUE	11	0.29	0.61	0.37	0.89	0.0	TRUE

Table 2: R – Newer Version of Links

<i>R</i>	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.125	TRUE	88	0.91	0.95	0.15	0.16	0.8	TRUE
0.250	TRUE	238	1.01	1.14	0.26	0.24	1.1	TRUE
0.375	TRUE	45	1.00	1.18	0.48	0.44	1.0	TRUE
0.500	TRUE	3392	0.97	1.02	0.44	0.44	0.8	TRUE
0.750	TRUE	10	0.78	0.76	0.55	0.71	0.3	TRUE
1.000	TRUE	11	0.29	0.61	0.37	0.89	0.0	TRUE

Table 3: R – Older Version of Links

3 Subgroups – RFull

RFull	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.000	TRUE	443	0.93	0.82	0.23	0.26	0.7	TRUE
0.125	TRUE	88	0.91	0.95	0.15	0.16	0.8	TRUE
0.250	TRUE	238	1.01	1.14	0.26	0.24	1.1	TRUE
0.375	TRUE	45	1.00	1.18	0.48	0.44	1.0	TRUE
0.500	TRUE	3392	0.97	1.02	0.44	0.44	0.8	TRUE
0.750	TRUE	10	0.78	0.76	0.55	0.71	0.3	TRUE
1.000	TRUE	11	0.29	0.61	0.37	0.89	0.0	TRUE

Table 4: RFull – Newer Version of Links

RFull	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.000	TRUE	443	0.93	0.82	0.23	0.26	0.7	TRUE
0.125	TRUE	88	0.91	0.95	0.15	0.16	0.8	TRUE
0.250	TRUE	238	1.01	1.14	0.26	0.24	1.1	TRUE
0.375	TRUE	45	1.00	1.18	0.48	0.44	1.0	TRUE
0.500	TRUE	3392	0.97	1.02	0.44	0.44	0.8	TRUE
0.750	TRUE	10	0.78	0.76	0.55	0.71	0.3	TRUE
1.000	TRUE	11	0.29	0.61	0.37	0.89	0.0	TRUE

Table 5: RFull – Older Version of Links

RExplicit	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	245	1.03	1.18	0.29	0.26	1.1	TRUE
0.375	TRUE	45	1.00	1.18	0.48	0.44	1.0	TRUE
0.500	TRUE	3412	0.96	1.01	0.44	0.44	0.8	TRUE

Table 6: RExplicit – Newer Version of Links

RExplicit	Included in SEM	N_{Pairs}	s_1^2	s_2^2	$s_{1,2}$	r	Determinant	PosDefinite
0.250	TRUE	245	1.03	1.18	0.29	0.26	1.1	TRUE
0.375	TRUE	45	1.00	1.18	0.48	0.44	1.0	TRUE
0.500	TRUE	3412	0.96	1.01	0.44	0.44	0.8	TRUE

Table 7: RExplicit – Older Version of Links

Quick for Internal Audiences

One-way General Linear Model

Predictor Variable:

Gender

Show your score

Show Summary

What is your gender?

Male

What is your age?

0 40 100

What is your marital status?

Unmarried

How many children do you have?

0

What is your yearly income?

30,000 1,000,000

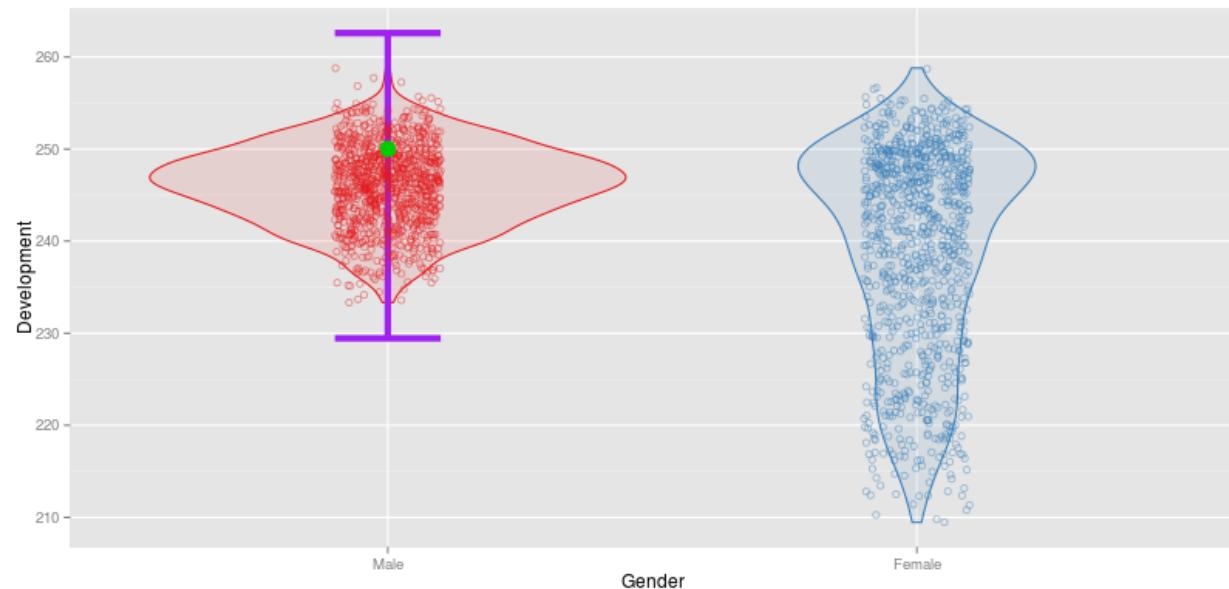
What is your Development Score ?

200 250 300

Predictor Variable: Gender

Dataset: /home/wibeasley/ShinyApps/Oneway/Data/FakeData.csv

Sample Scores



Most patients with your value of Gender fall between 229 and 263 points on the Development scale.

Subset of data:

Number of rows to display:

6

	SubjectID	Development	Gender	Age	MaritalStatus	ChildCount	Income	AgeGroup
1	1	247.24	Female	44.47	Unmarried	1	11508.09	[40,50)

Quick for Internal Audiences

One-way General Linear Model

Predictor Variable:

Age

Show your score
 Show Summary

What is your gender?

Male

What is your age?

0 30 100

What is your marital status?

Unmarried

How many children do you have?

3

What is your yearly income?

0 279,000 1,000,000

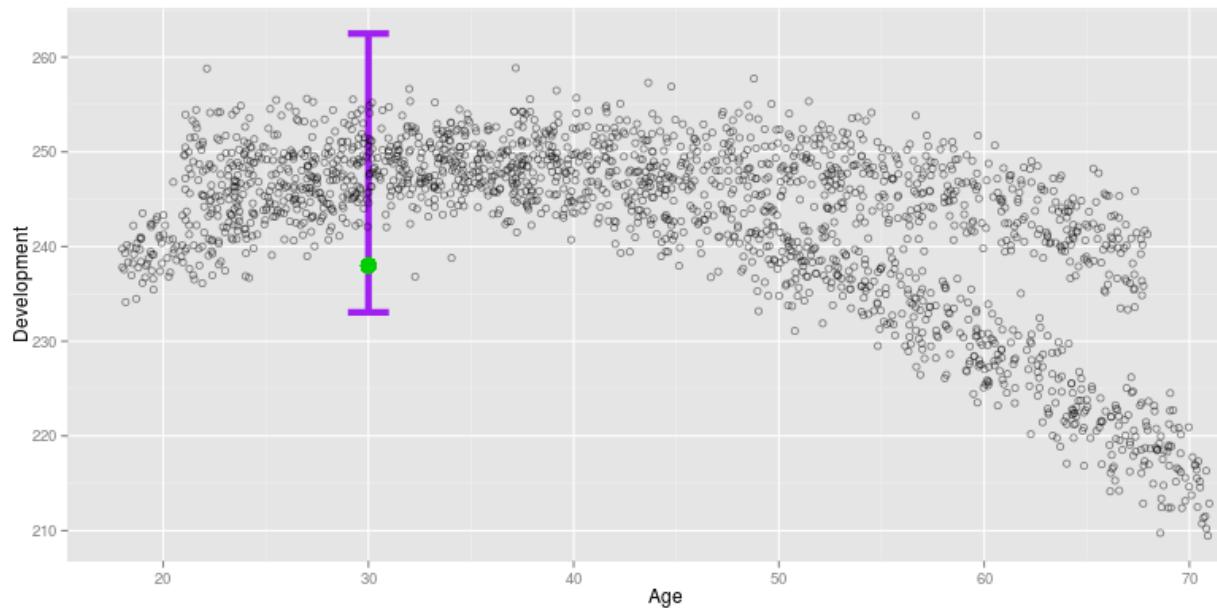
What is your Development Score ?

200 238 300

Predictor Variable: Age

Dataset: /home/wibeasley/ShinyApps/Oneway/Data/FakeData.csv

Sample Scores



Most patients with your value of Age fall between 233 and 262 points on the Development scale.

Subset of data:

Number of rows to display:

6

SubjectID	Development	Gender	Age	MaritalStatus	ChildCount	Income	AgeGroup
1	1	247.24	Female	44.47	Unmarried	1 11508.09	[40,50)

Goals

- Reproducible research.
 - Facilitates scientific replication.
 - Disseminates techniques to other subfields.
 - Promotes cumulative research.
- Literate programming.
 - Evaluated programs need fresh & frequent feedback.
- Collaborative Development.

Collaboration among

1. The 4 statisticians on the project.
sharing software development.
2. The 20 people on the project.
exchanging participant-level data.
3. The 3 partnering organizations. (OSDH, WIC, OHCA)
-receiving their subject-level & agency-level data.
-distributing our results –fresh & frequently.
4. Academics in different areas. (particularly at OUHSC)
exchanging tools and workflows.
5. Researchers in other states pursuing similar goals.
publishing ideas and replicating previous work.

Document Version Control:

- Examples: GitHub and Microsoft SharePoint
- Think MS Word’s “Track Changes” feature, but
 - Retains the entire history of each document.
 - Facilitates parallel development between people.

Intro to Security Concepts

- College of Medicine has devised a REDCap governance body to oversee data security concerns
 - In a nut-shell, looking to see if investigators and staff have proper IRB clearances for storing PHI on REDCap.
 - Will provide general advice on secure best practices
 - To gain access to REDCap, you must have seal of approval of this governance body
 - Please notify David Bard (david-bard@ouhsc.edu) to start this process

Underlying Security Concepts Part 1

- Principle of least privilege: expose as little as possible.
 - Limit the number of team members.
 - Limit the amount of data (consider rows & columns).
 - Obfuscate values and remove unnecessary PHI in derivative datasets.
- Redundant layers of protection.
 - A single point of failure shouldn't be enough to breach PHI security.

Underlying Security Concepts Part 2

- Simplify when possible.
 - Store data in only two houses. (REDCap & SQL Server)
 - Easier to identify & manage than a bunch of PHI CSVs scattered across a dozen folders, with versions.
 - Manipulate your data programmatically, not manually.
 - Windows AD account controls everything, indirectly or directly. (VPN, Odyssey, file server, SQL Server, & REDCap)
- Lock out team members where possible.
It's not that you don't trust them with a lot of unnecessary data, it's that you don't trust their ex-boyfriend and their coffee shop hacker.

Presentation Outline

REDCap overview and OUHSC history

Scenarios favoring REDCap

Reports for Project Management

Reports for Outcomes

Overall goals

Document Version Control

Security practices

How do I Get Started?

- Contact me
 - 271-8858 ext. 45141
 - David-Bard@ouhsc.edu

Feature

REDCap

Qualtrics

Feature	REDCap	Qualtrics
Data Dictionary	Y	?
Data Import	Y	n
Data Export & Summaries	Y	Y
E-mail survey	Only using a survey form, not a data collection form.	Y
Copy other surveys	Y	n
Survey templates	n	Y
Branching logic	Branching logic for individual Qs.	Branching for individual Qs and for groups of Qs.
Audio capabilities	Done via html	?
Expiration capabilities: (eg, 1 week to respond)	n	Y
Spell check	n	Y
API	Y	n
Free to academic institutions	Y	n?
Offline data capture	Currently, there is not an official REDCap offline data capture component. However, CCAN has created an "in-house" off-line version of REDCap that is currently in use.	

Our exposure to Qualtrics is limited.
Please don't interpret this as the authoritative guide.