

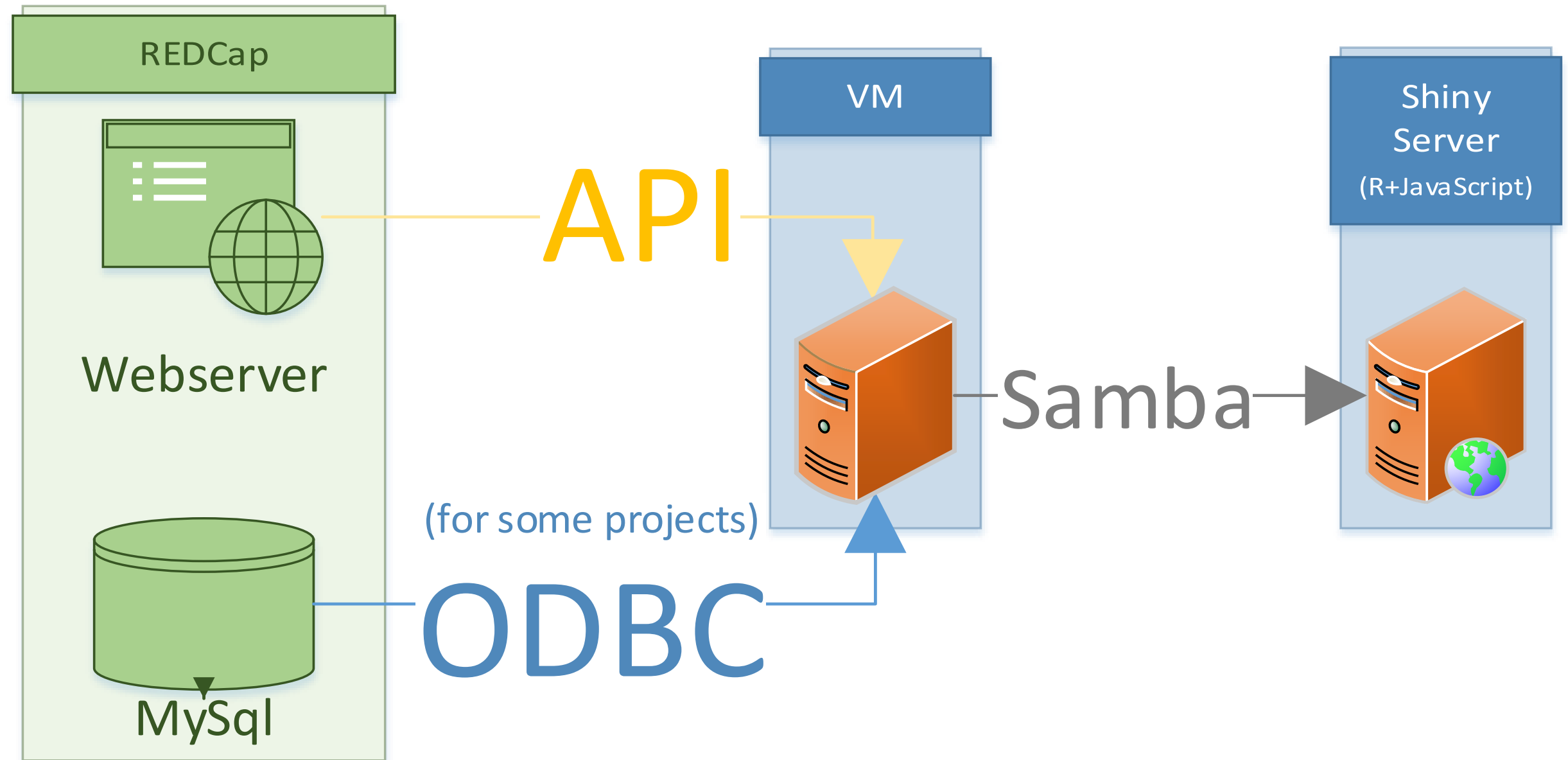
Interactive reports and webpages with R & Shiny

OUHSC Statistical Computing User Group

October 6 2015

Will Beasley

Flow from Databases to Shiny Report



Searchable & Hyperlinked Scheduling App

shiny.ouhsc.edu/MReporti x

shiny.ouhsc.edu/MReportingPublic/Shiny/UpcomingSchedule/

GPAV Schedule

Filters

County

Oklahoma

Display County

DC

All

Display DC

Upcoming Dates: yyyy-mm-dd

2015-09-29 - 2015-11-13

Past Dates: yyyy-mm-dd

Show 10 entries

Search:

Participant	Event Date	Status	Arm: Event	DC
10227651	2015-09-29	Confirmed	A2: Y3 M07 Contact	Kalyn
10240010	2015-09-29	Due Date	A2: Y3 M05 Contact	Kalyn
10702067	2015-09-29	Due Date	A2: Y3 M04 Contact	Denise
10847825	2015-09-29	Confirmed	A2: Y2 Reminder Call	Kalyn
10847825	2015-09-29	Scheduled	A2: Y2 Interview	Kalyn
10143996	2015-09-29	Due Date	A2: Y2 Interview	Kalyn
10625033	2015-09-29	Due Date	A2: Y2 M10 Contact	Kalyn
10622166	2015-09-29	Due Date	A2: Y2 M10 Contact	Kalyn
1062051130166	2015-09-29	Due Date	A3: Y2 M06 Contact	Kalyn
1074292014	2015-09-29	Due Date	A3: Y2 M05 Contact	Denise

Showing 1 to 10 of 890 entries

Previous 1 2 3 4 5 ...

https://bbmc.ouhsc.edu/redcap/redcap_v6.0.2/Calendar/calendar_popup.php?pid=35&width=800&cal_id=30091

shiny.ouhsc.edu/MReporti x

shiny.ouhsc.edu/M

GPAV Schedule

Show 10 entries

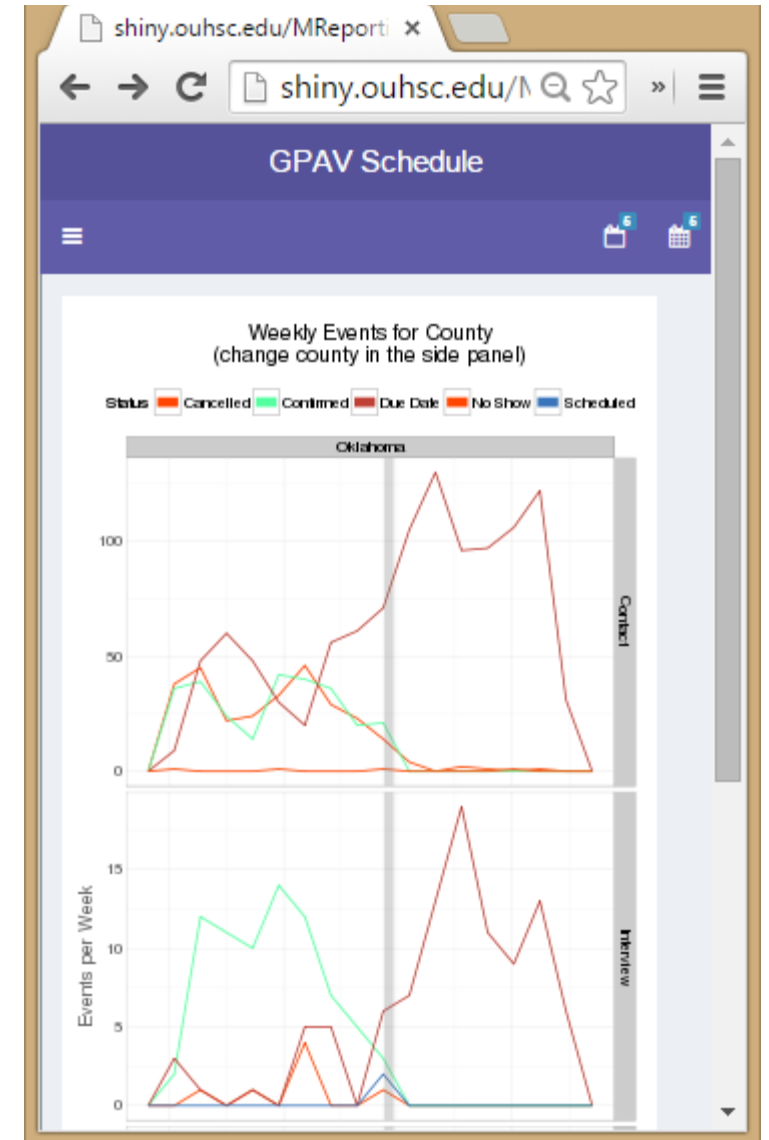
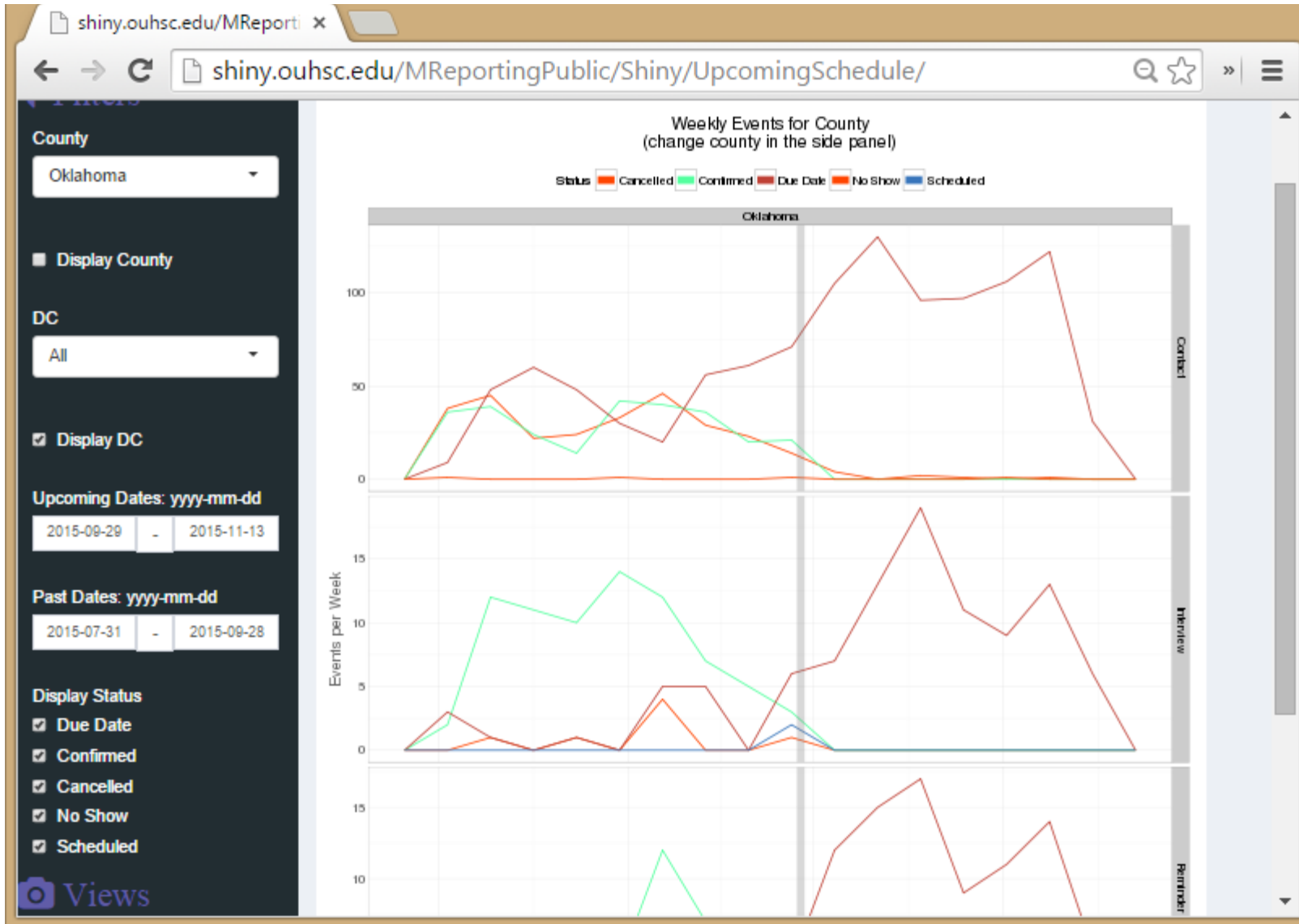
Search:

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bbmc.ouhsc.edu/redcap/redcap_v6.0.2/DataEntry/index.ph...

<http://shiny.ouhsc.edu/MReportingPublic/Shiny/UpcomingSchedule/>

Resize Logic Leverages [Bootstrap](#) Library



<http://shiny.ouhsc.edu/MReportingPublic/Shiny/UpcomingSchedule/>

Get Cutesy with HTML5, JavaScript, & CSS

shiny.ouhsc.edu/TfcbtPublic/Shiny/TherapistProgress/

Oklahoma TF-CBT

Filter by Agency Name(s):

Filter by Call Group(s):

Select Therapist Tag:

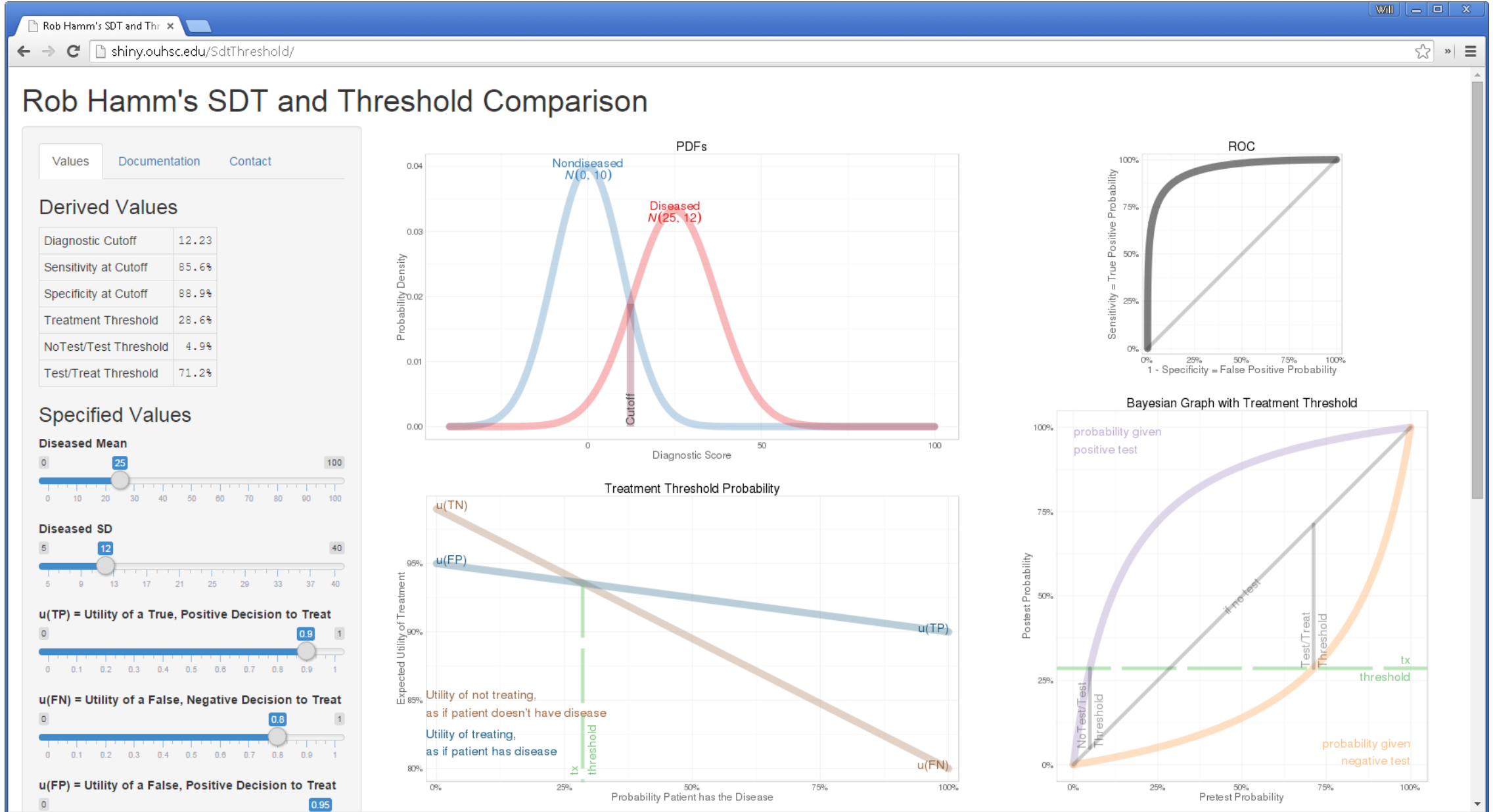
Select Therapist's Client:

TF-CBT Session Tracking Trauma Symptom Tracking Details

Session Number	01	02	03	07	08	11	12	13	14	15	16	17
Session Month	01	02	02	03	NA	03	03	03	04	04	04	04
Session Day	26	02	09	09		16	23	30	06	13	20	27
Client Attended	Y	Y	Y	Y	?	Y	N	Y	Y	Y	N	Y
PSYCHOEDUCATION: Therapist provided psycho-education (e.g., directive education about the traumatic event, normal reactions to trauma, etc.; education to instill hope)	✓	✓	✓	○	?	○		○	○	○		○
General info re: abuse, trauma; specific info re: trauma child experienced (GE) and the child's reactions to his/her personal experience of the trauma	✓	✓	✓	○	?	○		○	○	○		○
Common emotional, behavioral, and physiological responses.	✓	✓	✓	○	?	○		○	○	○		○
Info about child's symptoms and diagnosis.	✓	○	✓	○	?	○		○	○	○		○
Description of components of TF-CBT, session structure, treatment length	✓	○	✓	○	?	○		○	○	○		○
Engaged family (e.g., found out what child liked, what motivates the family, etc.)	✓	✓	✓	○	?	○		○	○	○		○
PARENTING: Therapist provided parenting skills (e.g., praise, selective attention, time out, bx mng plans); ask parent about their reactions to the child's traumatic experience	✓	○	✓	○	?	○		○	○	○		○
RELAXATION: Therapist explained the physiology of relaxation and rationale for relaxation techniques; instructed on methods of relaxation	○	✓	○	○	?	○		○	✓	✓		✓
Discuss ways that relaxation skills can help child with trauma reactions (GE); suggest that child use relaxation skills when they have trauma reminders	○	✓	○	○	?	○		○	✓	✓		✓
AFFECT REGULATION: Therapist assisted child in accurately identifying their feelings, and various ways of regulating their emotions (e.g.,	✓	✓	✓	✓	?	○		○	✓	✓		✓

<http://shiny.ouhsc.edu/TfcbtPublic/Shiny/TherapistProgress/>

Exploit R Statistical & Graphical Capabilities



<http://shiny.ouhsc.edu/SdtThreshold/>

Validate Data after Collection, but before Analysis

Violations at 2015-10-05 14:20:32								
	check name	studyid	arm	redcap event name	event date	dc currently responsible	error message	priority
3978	studyid positive	-123456789	1	initial interview arm 1		NotSet	'studyid' is not a valid positive number.	3
3979	studyid positive	-888888888	1	year 1 interview arm 1	2015-07-09	NotSet	'studyid' is not a valid positive number.	3
3980	studyid positive	NA					'studyid' is not a valid positive number.	3
5730	pregnant weeks until due date positive	21121120520514504	3	initial interview arm 3	2015-03-06	Crystal	'PregnantWeeksUntilDueDate' is not a valid positive number.	3
5731	pregnant weeks until due date positive	3092051122488	3	initial interview arm 3	2014-04-15	Beverly	'PregnantWeeksUntilDueDate' is not a valid positive number.	3
5732	pregnant weeks until due date under 40	10117574	1	year 2 interview arm 1	2014-10-01	Kalyn	'PregnantWeeksUntilDueDate' should be less than 40.	3
5733	pregnant weeks until due date under 40	309918027	3	initial interview arm 3	2014-08-22	Beverly	'PregnantWeeksUntilDueDate' should be less than 40.	3
5734	weeks pregnant when started prenatal care under 40	10111627	1	year 2 interview arm 1	2014-10-17	Denise	'WeeksPregnantWhenStartedPrenatalCare' should be less than 40.	3
5735	weeks pregnant when started prenatal care under 40	10747907	2	year 1 interview arm 2	2014-11-17	Denise	'WeeksPregnantWhenStartedPrenatalCare' should be less than 40.	3
5736	weeks pregnant when started prenatal care under 40	20550021	2	initial interview arm 2	2013-06-26	Felisa	'WeeksPregnantWhenStartedPrenatalCare' should be less than 40.	3
3981	dc set	-123456789	1	initial interview arm 1		NotSet	'dc_currently_responsible' is not set.	2
3982	dc set	-888888888	1	year 1 interview arm 1	2015-07-09	NotSet	'dc_currently_responsible' is not set.	2
3983	dc set	10100173	1	initial interview arm 1		NotSet	'dc_currently_responsible' is not set.	2
<div>AllAllAllAllAllAllAll</div> <div>Showing 1 to 13 of 5,736 entries</div> <div>Previous12345...442Next</div>								

https://bbmc.ouhsc.edu/redcap/redcap_v6.0.2/DataEntry/grid.php?pid=35&arm=1&id=-123456789&page=participant_demographics

(Internal Report, but easily convertible to Shiny)

Return to [Slides of Code](#)

(https://rawgit.com/OuhscBbmc/StatisticalComputing/master/2015_Presentations/10_October/beasley-scug-shiny-2015-10.html#/)