

Using Graphics to Present the Study Results as a Story

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 Shafi Consultancy Ltd.

Overview

- Introduction
- Presenting report as a story
- Developing animated graphics
- Sharing stories
 - Disposition of Patients
 - Change in lesion size over time
 - Change in System Organ Class
 - Injection site reactions over time



Introduction



Too often we sit and listen to the final results of a study that has just been reported and think of how it can be more interesting.

We are told

We need to see

- the numbers
- the tables
- the figures

so that we know the result of
the study



Presenting reports as a story



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Animated charts

- Helps audiences to visualize the numbers
- Makes easier to see changes over time
- Leave a powerful image in the minds
- Makes the presentation more interesting
- Energizes the audience
- Interactive aspect allow the presenter to answer questions
- Demonstrate and show those results as and when required

Developing animated graphics

There are five parts used in the application

- Upload data
- Assign role
- Customise settings
- Create chart
- Export feature

Developing animated graphics (cont.)

UPLOAD DATA

- Accept CSV
- Print loaded data using “DataTables” plugins
- Data processed on user’s browser

Upload File

Browse...

No file selected.

Graph Table

Show 10 entries

Search:

PTNO	TYPE	DAY	BLVALUE	VALUE
1001	A	0	35	35
1001	A	6	35	63
1001	A	12	35	63
1001	A	18	35	56
1001	A	24	35	37
1001	A	30	35	68
1001	A	36	35	53
1001	A	42	35	39
1001	A	48	35	64
1001	A	54	35	41

Showing 1 to 10 of 840 entries

Previous 1 2 3 4 5 ... 84 Next

Developing animated graphics (cont.)

ASSIGN ROLE

- Change the role of a variable to be used in the desired graph
- Roles can be changed anytime

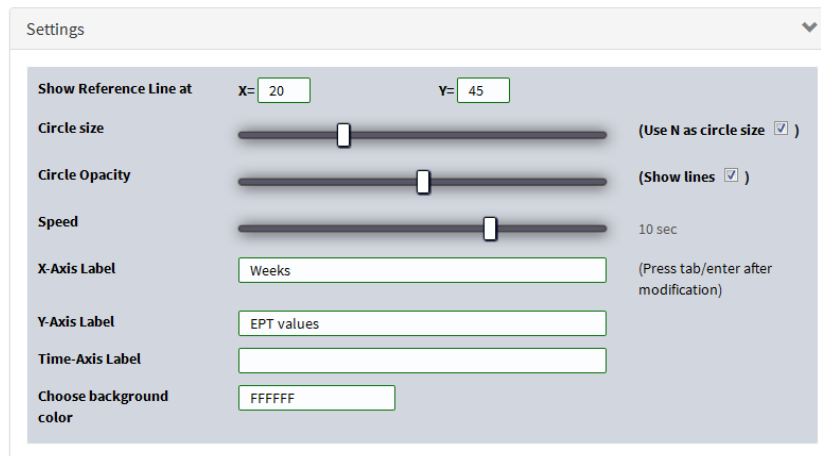
Assign role

Category	TYPE ▼
Time	DAY ▼
X axis	BLVALUE ▼
Y axis	VALUE ▼
Patient ID	PTNO ▼

Developing animated graphics (cont.)

CUSTOMIZE SETTINGS

- Customise various settings
- Can be changed anytime, reflect the change immediately



The screenshot shows a 'Settings' window with a dropdown arrow in the top right corner. The settings are organized into several rows:

- Show Reference Line at**: X= 20, Y= 45
- Circle size**: A horizontal slider with a white knob. To the right is the text '(Use N as circle size ☒)'.
- Circle Opacity**: A horizontal slider with a white knob. To the right is the text '(Show lines ☒)'.
- Speed**: A horizontal slider with a white knob. To the right is the text '10 sec'.
- X-Axis Label**: A text input field containing 'Weeks'. To the right is the text '(Press tab/enter after modification)'.
- Y-Axis Label**: A text input field containing 'EPT values'.
- Time-Axis Label**: An empty text input field.
- Choose background color**: A text input field containing 'FFFFFF'.

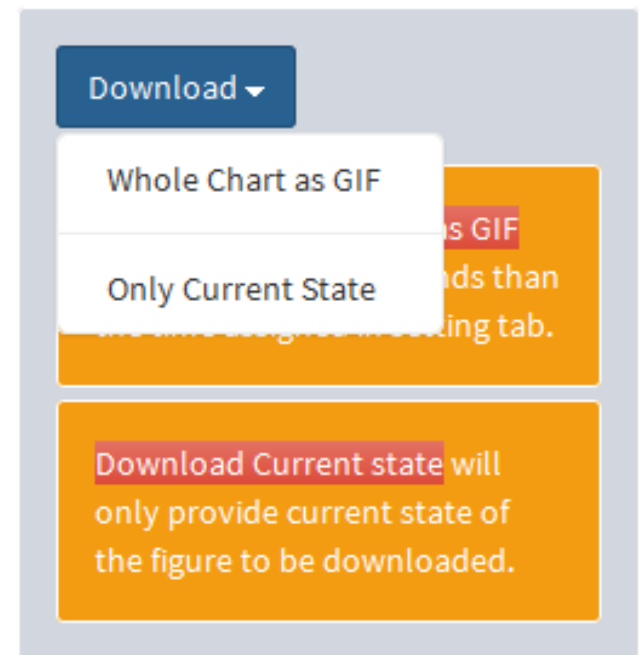
Developing animated graphics (cont.)

CREATE FIGURE

- Draw the chart using defined roles and settings

EXPORT FEATURE

- Export animated or static chart

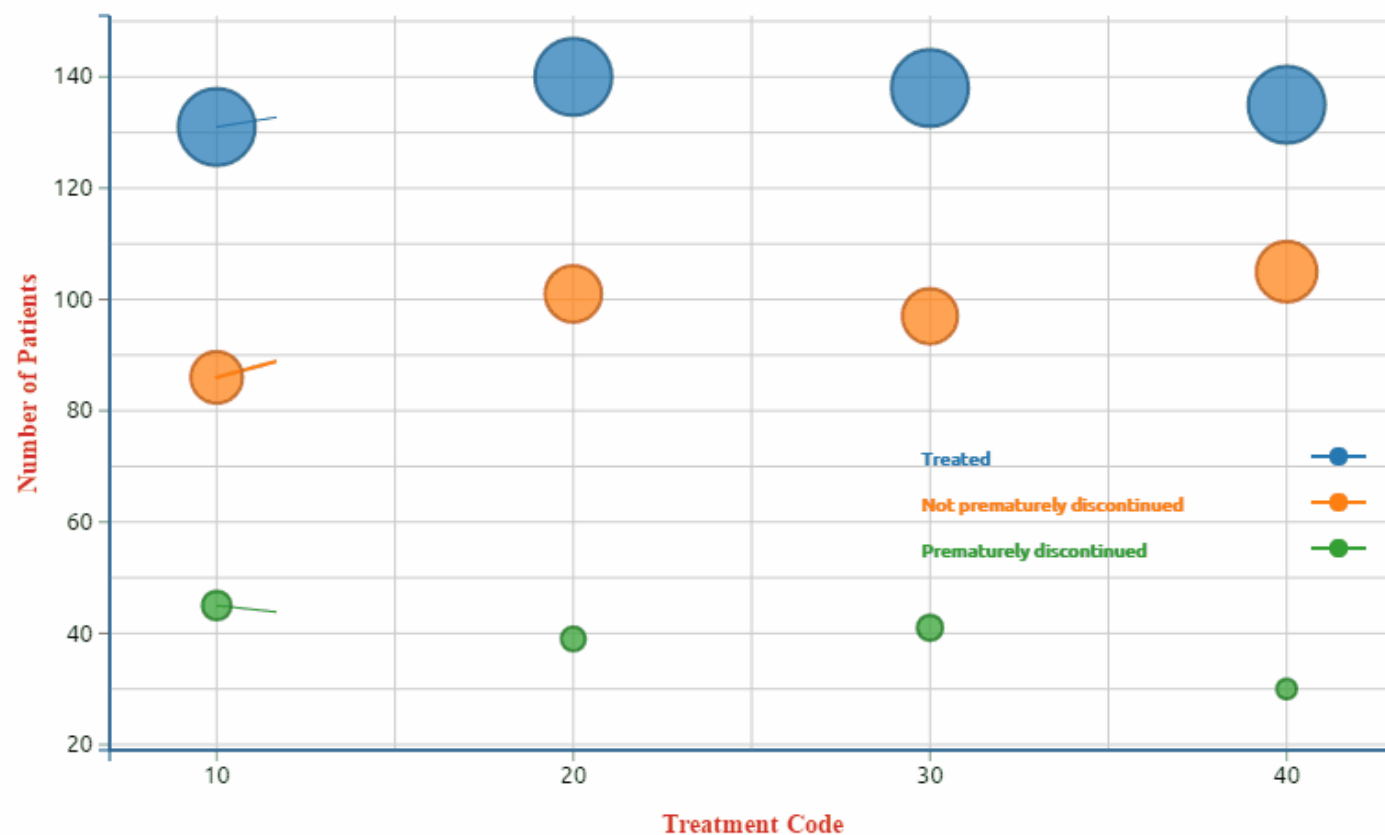


Sharing a story

Disposition of patients

	TRT_10 N (%)	TRT_20 N (%)	TRT_30 N (%)	TRT_40 N (%)
Treated *	131 (100.0)	140 (100.0)	138 (100.0)	135 (100.0)
Not prematurely discontinued	86 (65.6)	101 (72.1)	97 (70.3)	105 (77.8)
Prematurely discontinued	45 (34.4)	39 (27.9)	41 (29.7)	30 (22.2)

Disposition of patients



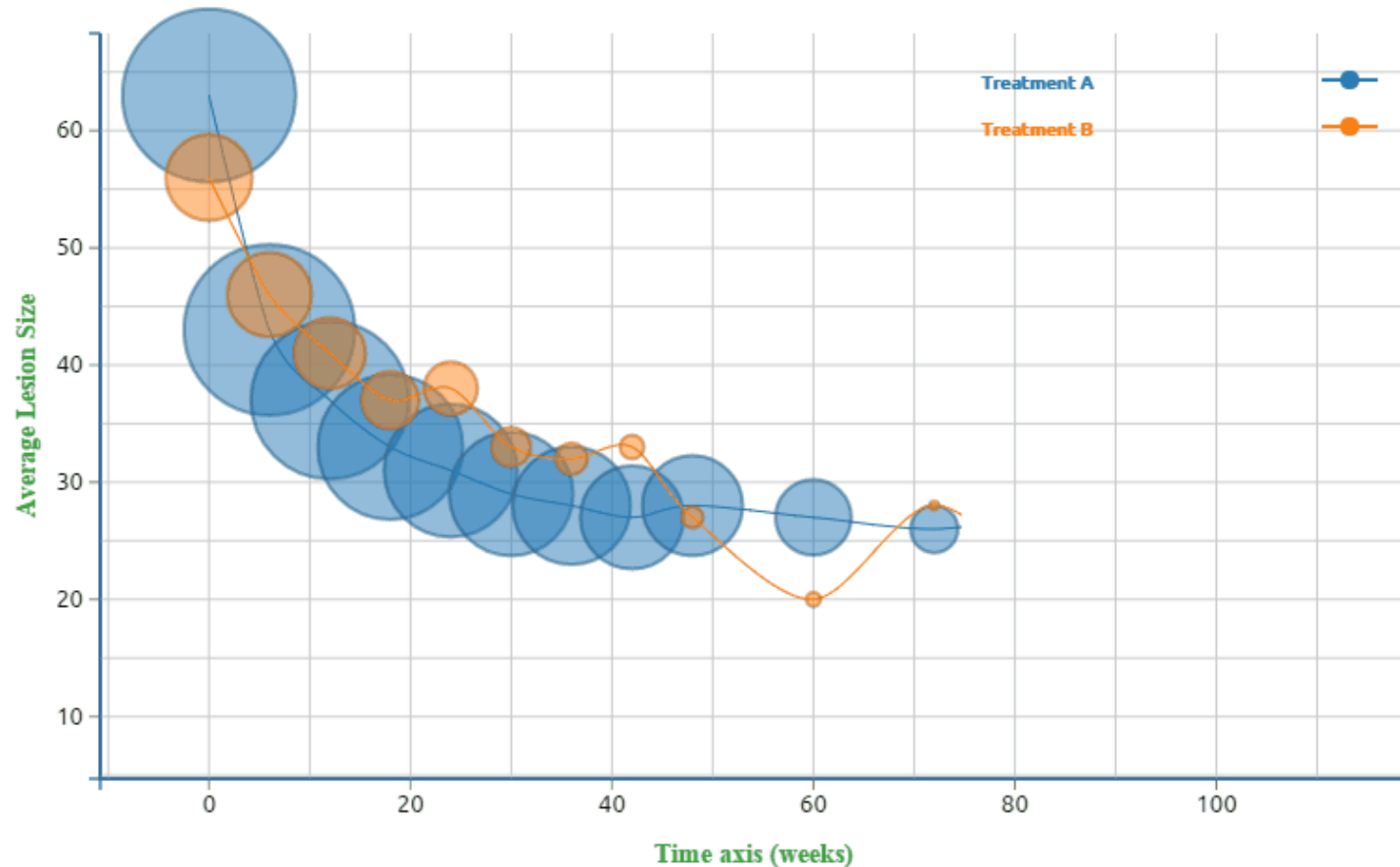
Change in lesion size over time

ATRSORT ▲	ATRSLBL ◆	INTERV ◆	INTERVDC ◆	WEEK ◆	EPTNM ◆	EPTNMDC ◆	N ◆	AVERAGE_SIZE ◆
1	Treatment A	0	Baseline	0	SLD	Sum of target lesion diameters [mm]	454	63
1	Treatment A	1	Day 2 - 64	6	SLD	Sum of target lesion diameters [mm]	448	43
1	Treatment A	2	Day 65 - 106	12	SLD	Sum of target lesion diameters [mm]	413	37
1	Treatment A	3	Day 107 - 148	18	SLD	Sum of target lesion diameters [mm]	379	33
1	Treatment A	4	Day 149 - 190	24	SLD	Sum of target lesion diameters [mm]	347	31
1	Treatment A	5	Day 191 - 232	30	SLD	Sum of target lesion diameters [mm]	322	29
1	Treatment A	6	Day 233 - 274	36	SLD	Sum of target lesion diameters [mm]	306	28
1	Treatment A	7	Day 275 - 316	42	SLD	Sum of target lesion diameters [mm]	267	27
1	Treatment A	8	Day 317 - 379	48	SLD	Sum of target lesion diameters [mm]	259	28
1	Treatment A	9	Day 380 - 463	60	SLD	Sum of target lesion diameters [mm]	193	27

Showing 1 to 10 of 28 entries

Previous 1 2 3 Next

Change in lesion size over time



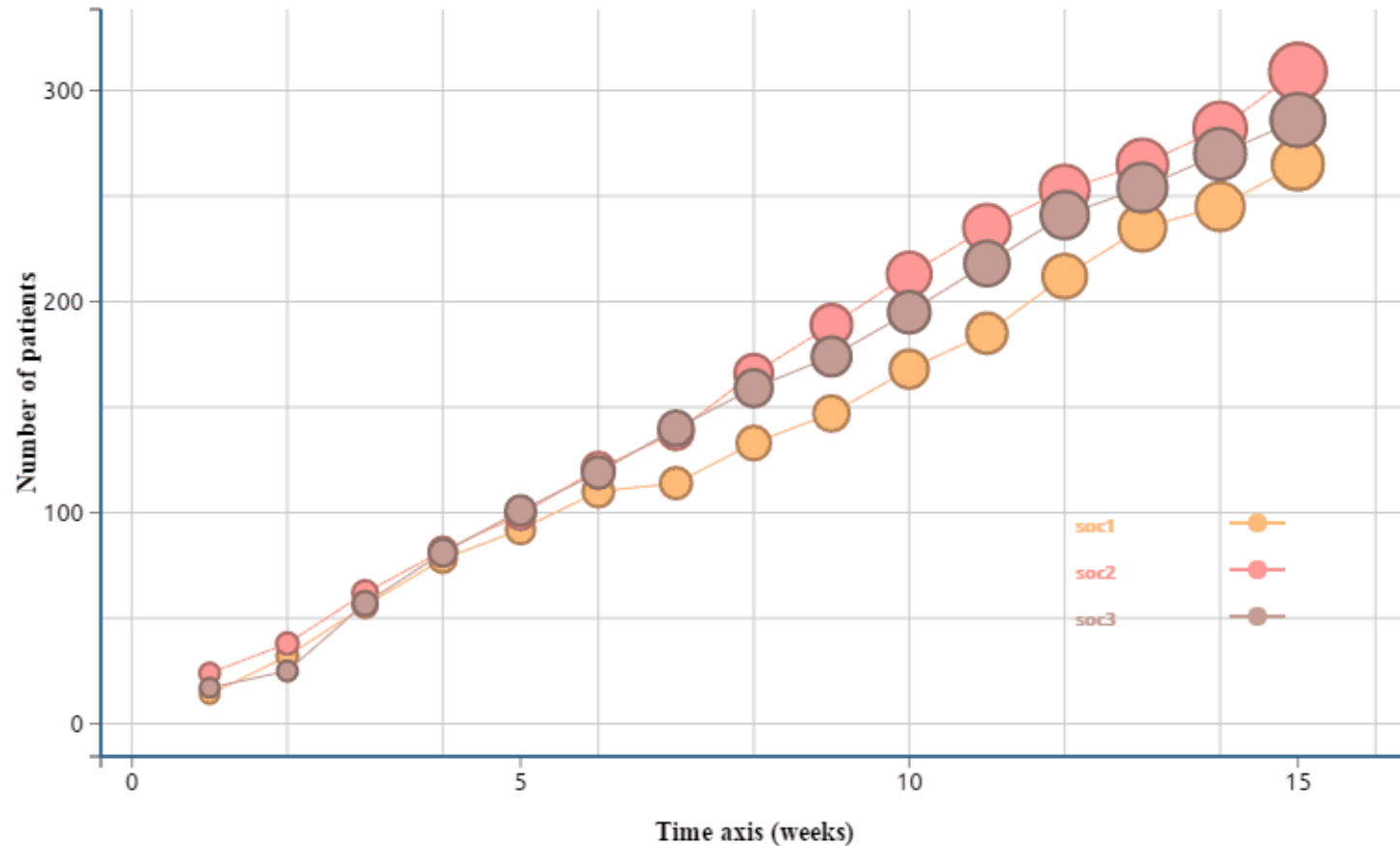
System Organ Class over time

WEEK	SOCNAME	SEVERITY	PTNAME	COUNT
1	soc1	2	p1	1
1	soc1	1	p2	11
1	soc1	1	p3	2
1	soc1	2	Total	14
1	soc2	2	p4	1
1	soc2	3	p5	9
1	soc2	2	p6	14
1	soc2	2	Total	24
1	soc3	2	p7	10
1	soc3	2	p8	3

Showing 1 to 10 of 180 entries

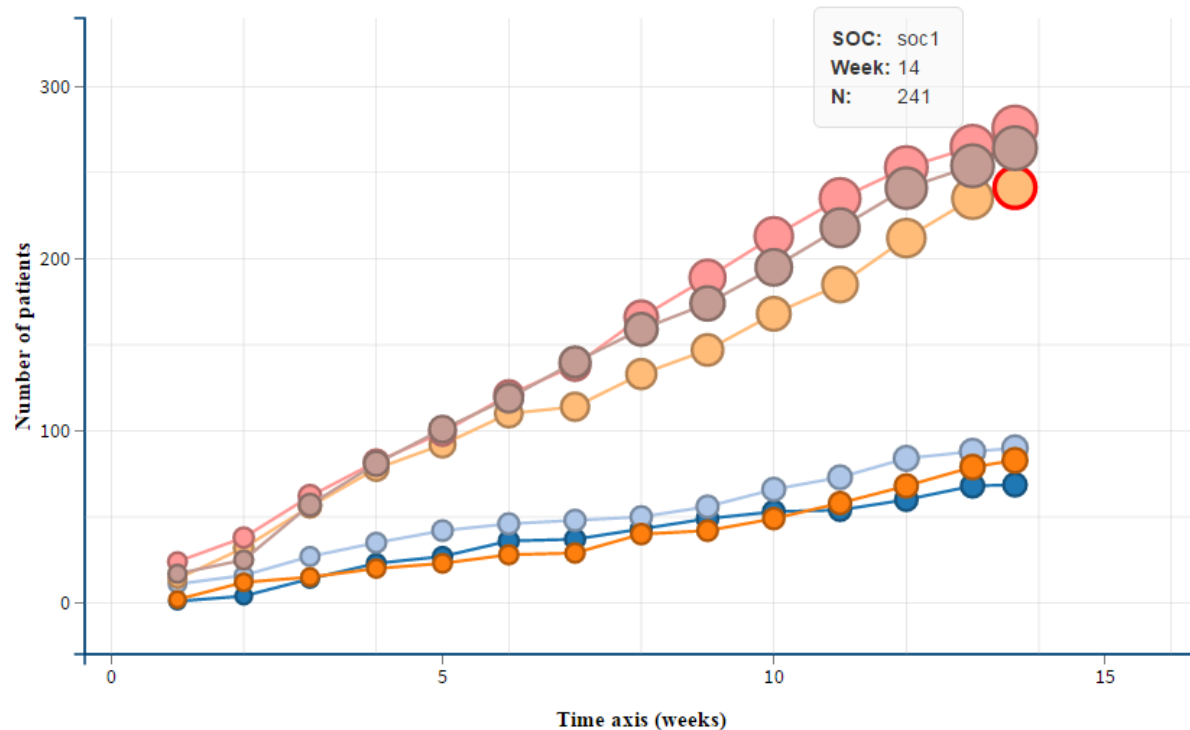
Previous 1 2 3 4 5 ... 18 Next

System Organ Class over time



System Organ Class over time

SOC items can be expanded into corresponding PTs at any point



Injection site reactions over time

PTNO	WEEK	RACE	TRT	BASE	POSTBASE	ISR_N	INTENSITY
1003	2	Asian	Treatment A	2.17	5.63	1	1
1003	4	Asian	Treatment A	2.17	7.28	1	0
1003	8	Asian	Treatment A	2.17	11.94	2	2
1003	12	Asian	Treatment A	2.17	8.4	2	0
1003	16	Asian	Treatment A	2.17	11.71	3	3
1003	20	Asian	Treatment A	2.17	7.12	4	4
1005	0	Caucasian	Treatment B	7.85	7.85	0	0
1005	1	Caucasian	Treatment B	7.85	11.13	1	1
1005	2	Caucasian	Treatment B	7.85	10.11	1	0
1005	4	Caucasian	Treatment B	7.85	3.12	2	2

Showing 11 to 20 of 816 entries

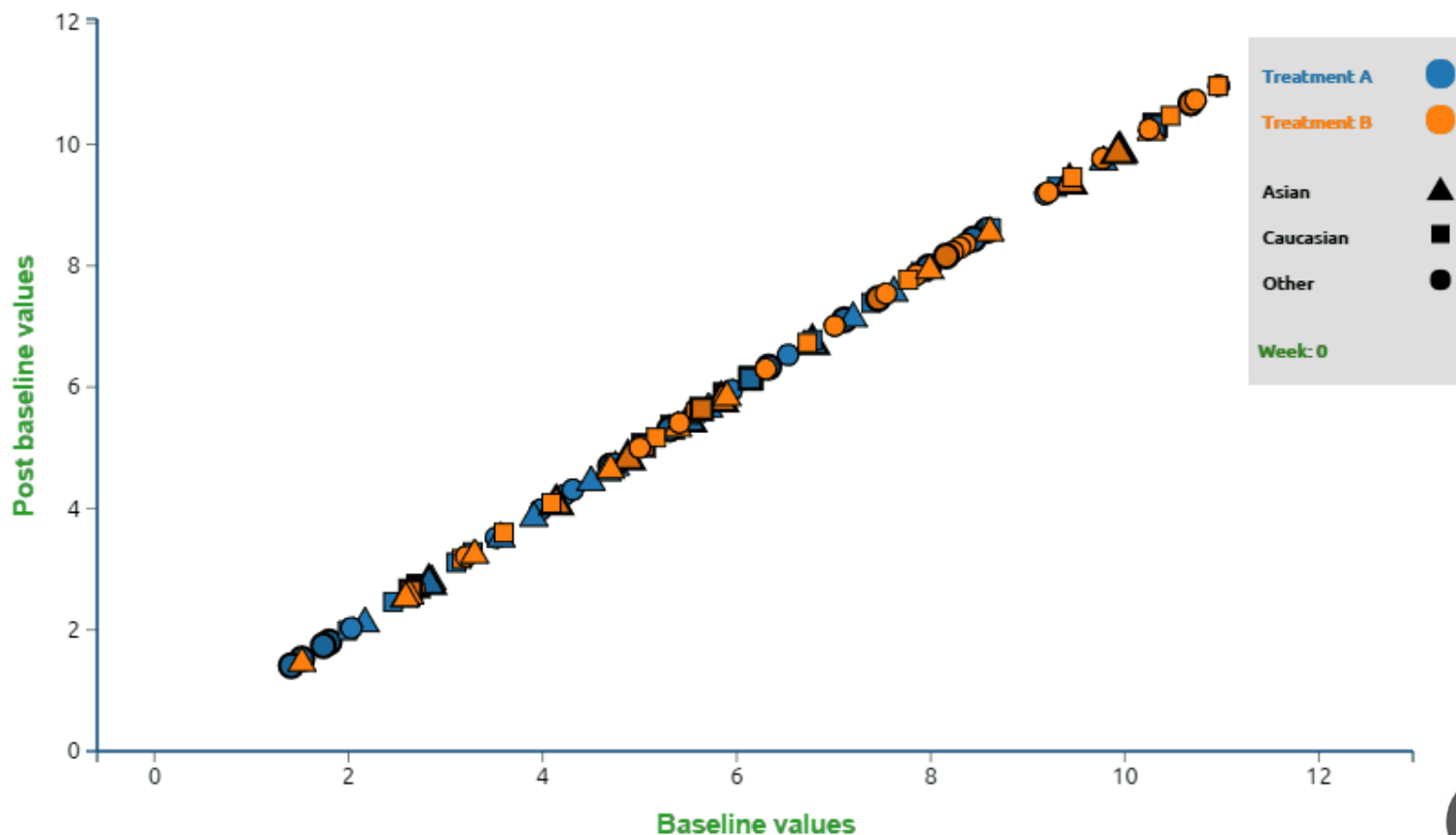
Previous 1 2 3 4 5 ... 82 Next

Injection site reactions over time

Graph specs:

- x-axis: Baseline, y-axis: Post-baseline
- Animated over time
- 3 shape categories for Race (Asian, Caucasian, Other)
- 2 colors for 2 treatment

Injection site reactions over time



Summary

- Many different methods and applications where drilling down is possible, including SAS
- Look at portability, do you need the system on the laptop to do the presentation? Do you need internet?
- Where can animation be used? and what can be presented in this way?
- Remember the story, and the image you would like everyone to remember when they leave the room.
 - <http://animation.shaficonsultancy.com>
 - <http://animation.shaficonsultancy.com/isr.html>
 - <http://animation.shaficonsultancy.com/bubble1.html>



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Acknowledgements

- Many thanks to my colleagues who have helped me with this:
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Questions or Comments



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