

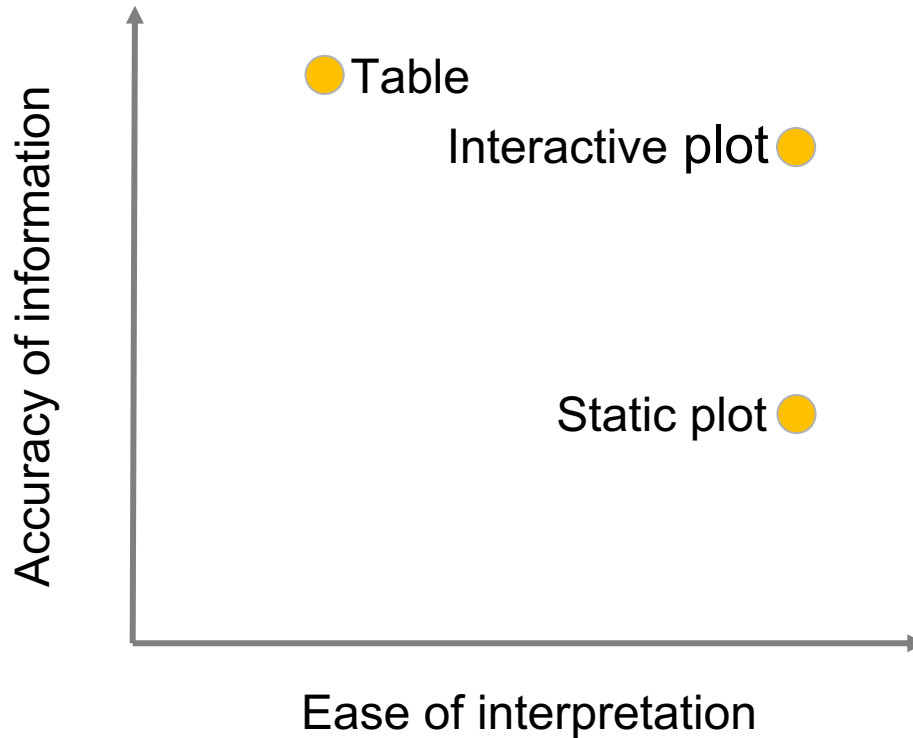
Turning a static output into an interactive data visualization using R Shiny

PHUSE EU Connect 2020

Thomas Neitmann



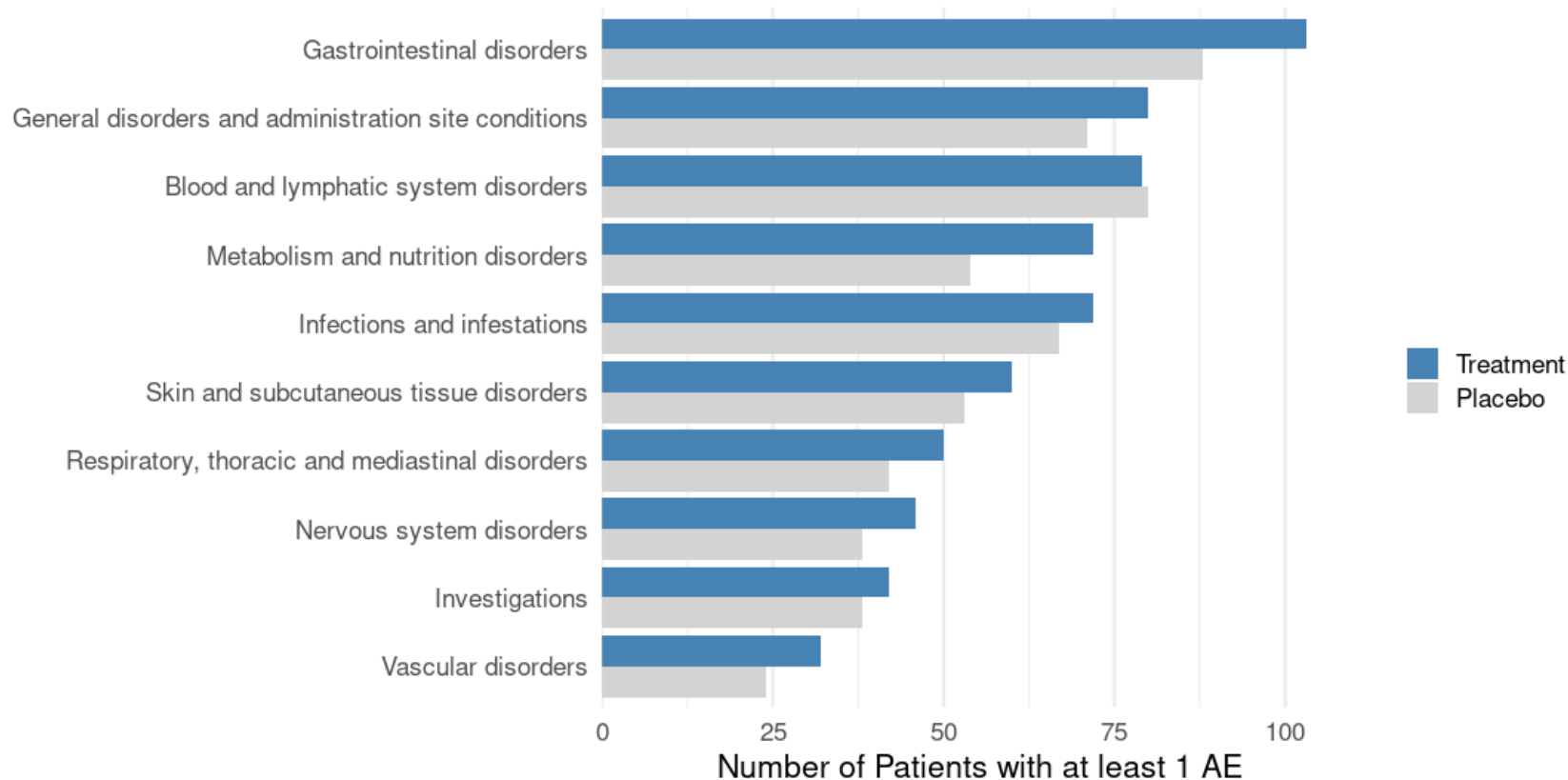
Tables vs. Plots



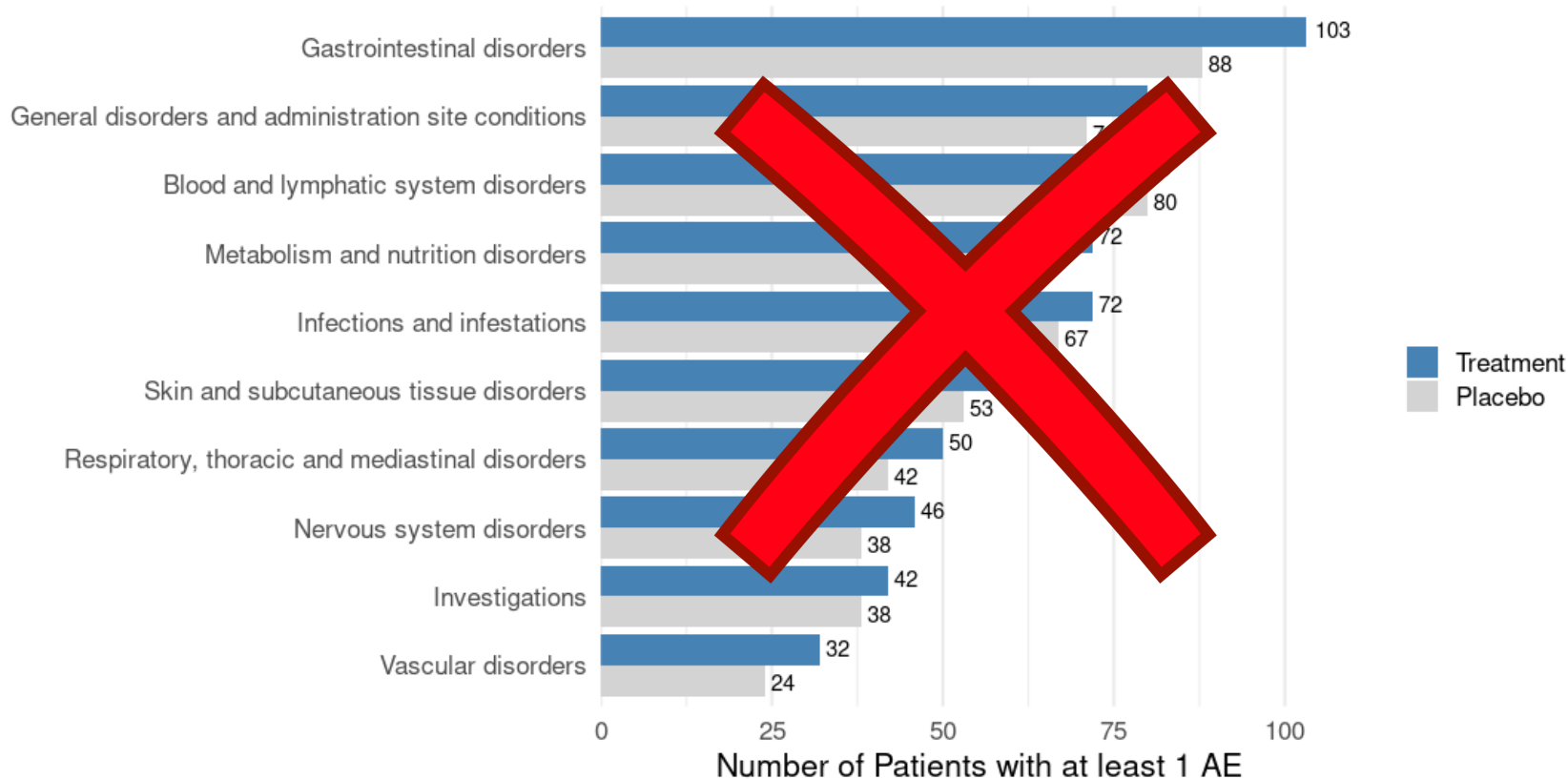
Static Table

	Placebo (N=103)	Treatment (N=103)
Total number of patients with at least one event	102 (99.03%)	103 (100%)
Total number of events	1378	2049
Gastrointestinal disorders	88 (85.44%)	103 (100%)
Blood and lymphatic system disorders	80 (77.67%)	79 (76.70%)
General disorders and administration site conditions	71 (68.93%)	80 (77.67%)
Infections and infestations	67 (65.05%)	72 (69.90%)
Metabolism and nutrition disorders	54 (52.43%)	72 (69.90%)
Skin and subcutaneous tissue disorders	53 (51.46%)	60 (58.25%)
Respiratory, thoracic and mediastinal disorders	42 (40.78%)	50 (48.54%)
Nervous system disorders	38 (36.89%)	46 (44.66%)
Investigations	38 (36.89%)	42 (40.78%)
Vascular disorders	24 (23.30%)	32 (31.07%)
Musculoskeletal and connective tissue disorders	30 (29.13%)	24 (23.30%)
Psychiatric disorders	25 (24.27%)	20 (19.42%)

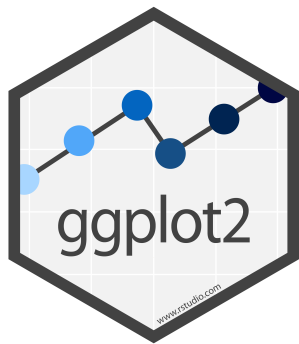
Static Plot



Static Plot with Annotation



Toolstack





Take Home Messages

- Tables are great to display data very accurate and to look up a specific value for a variable of interest
- Static plot are very good at showing global patterns and thus make it easy to explore new data
- Interactive plots combine the best of both worlds
- R and Shiny are great tools to create interactive data visualizations

Thomas' adventure

My personal take on the R programming language.



Posts

About

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