



Psychotherapy Model

Team Experimental Design

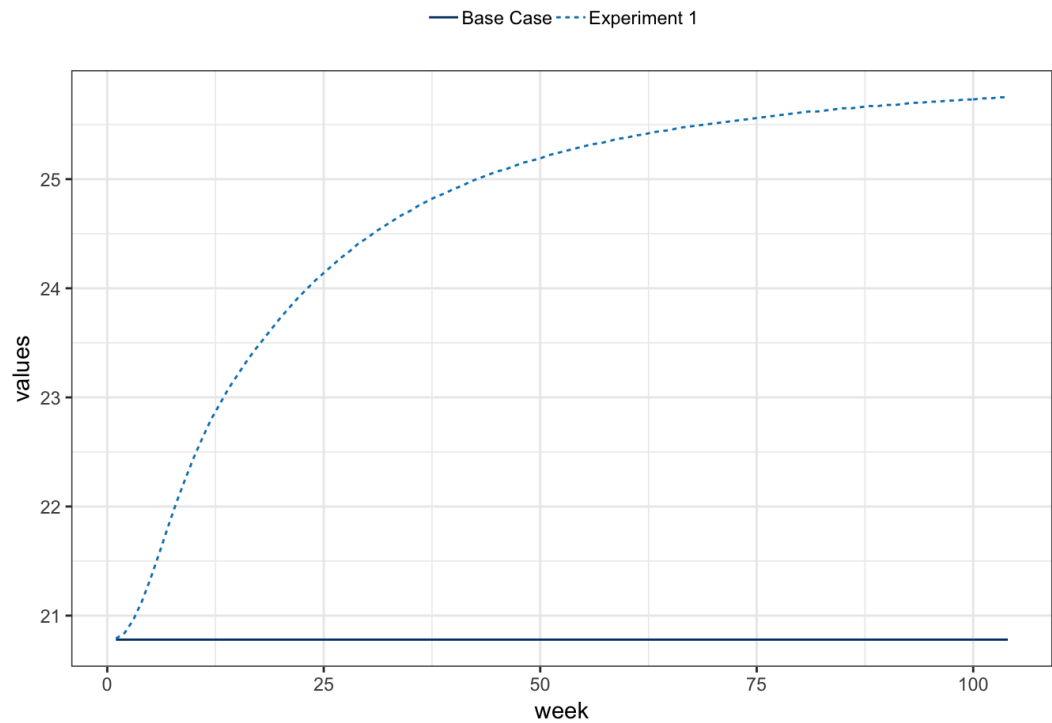
Experiment	Our Question	Our Hypothesis	Our Findings	Our Decisions
Base Case	How many patients are current receiving an evidence-based dose of PSY by our team? Is there a way to increase the number of PSY patients who complete and graduate without compromising new patient wait times?	We hypothesis that the number of patients receiving an evidence-based dose of PSY is currently low, taking into consideration that Completers who Graduate is about 4% and that Initiators who Complete is just 37%.	Based on the Sankey diagram, we understand that out of N=371 patients who have one PSY visit, n=289 are Initiators. Of these, only n=107 are Completers, and of Completers, on n=4 graduate after having an evidence-based dose of PSY (about 8 sessions).	We can do much better. We can start by trying to increase the percentage of Completers who graduate, from 3.77% to as high as 75%.
Experiment 1	What is the effect of working to increase the proportion of patients who 'complete' an evidence-based dose of PSY and then graduate from just 4% to 75%, over time, on (1) the number of patients who complete and are then 'done'? and (2) on the supply of available appts for new patients?	We hypothesize that an increasing the complete and graduate rate from 4% to 75% will results in a jump from about 4 patients to about 75 patients graduating during the same time period. We also expect that by increasing the graduation rate for any one who has received 8 or more sessions of PSY, we will increase the number of appt slots for new patients starting PSY.	We found that the total number of patients served by the team increased from 371 to 460. Of the 460, 358 were Initiators and 132 were Completers. Among Completers, 99 graduated and were done (75%, as we expected). Regarding the starting rate for new patients, it increased from about 3.8 pts/wk to about 4.8 pts/wk. our hypotheses was supported.	We will keep to the goal of graduating 75% of all completers, as this dramatically increases the number of patients in PSY who are receiving an evidence base dose of therapy and supports the team in taking on more new patients, about one more new pt/wk (or 4 new ones per month, or 48 new ones annually!). And now that we have affirmed that we have additional appt capacity for new (and existing patients), we would like to explore how changing just Initiators who Complete from the base case rate of 37% to 75% might impact the number of patients who complete and graduate.

Changes to Model Parameters Relative to Base Case

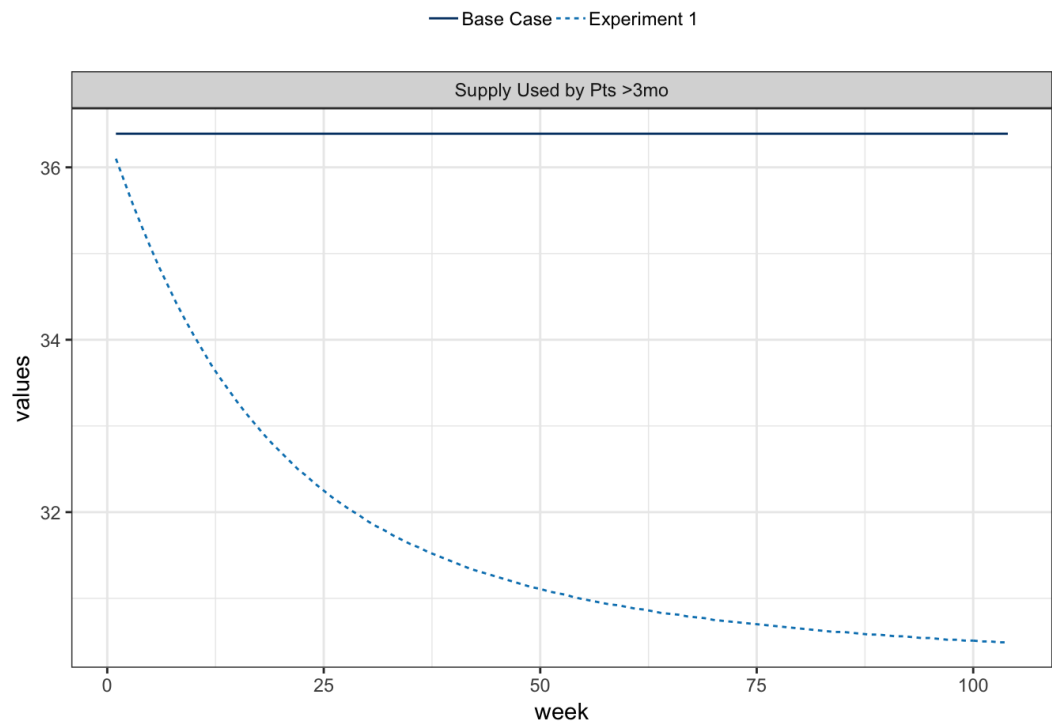
Experiment	Variable	values
Experiment 1	Completers who Graduate %	0.75

Team Graphs

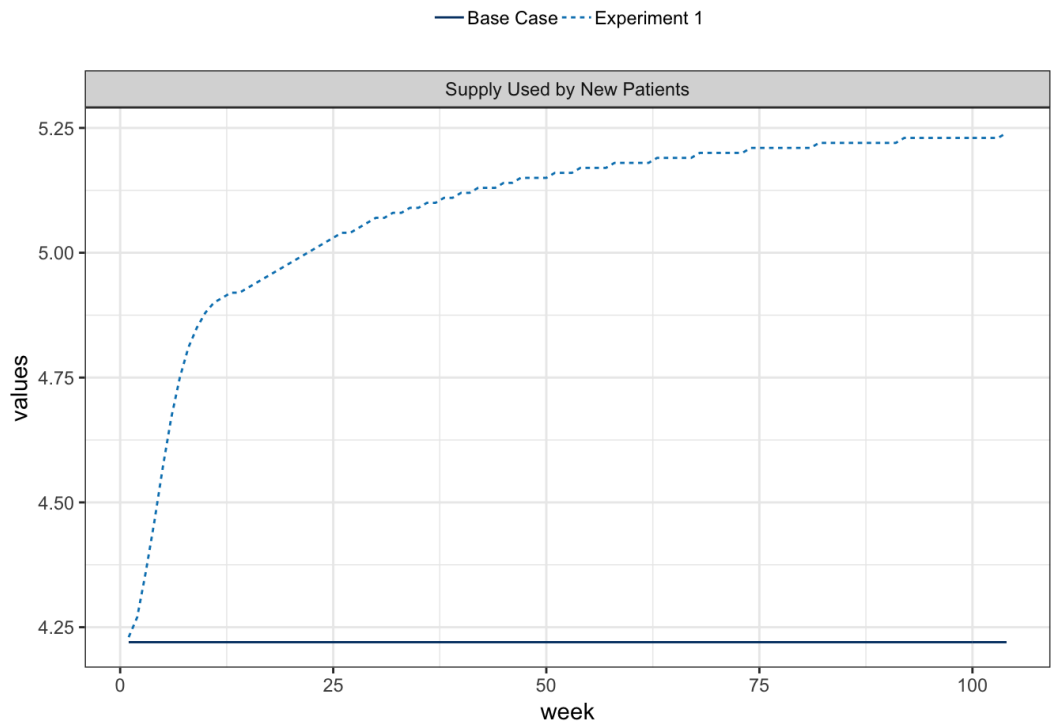
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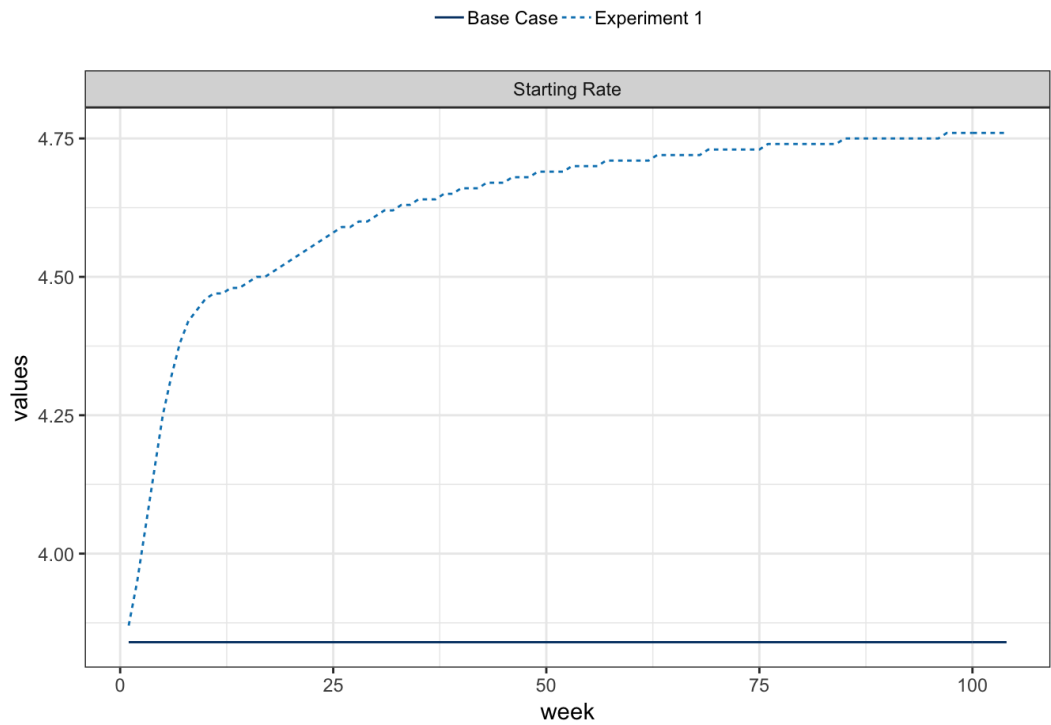
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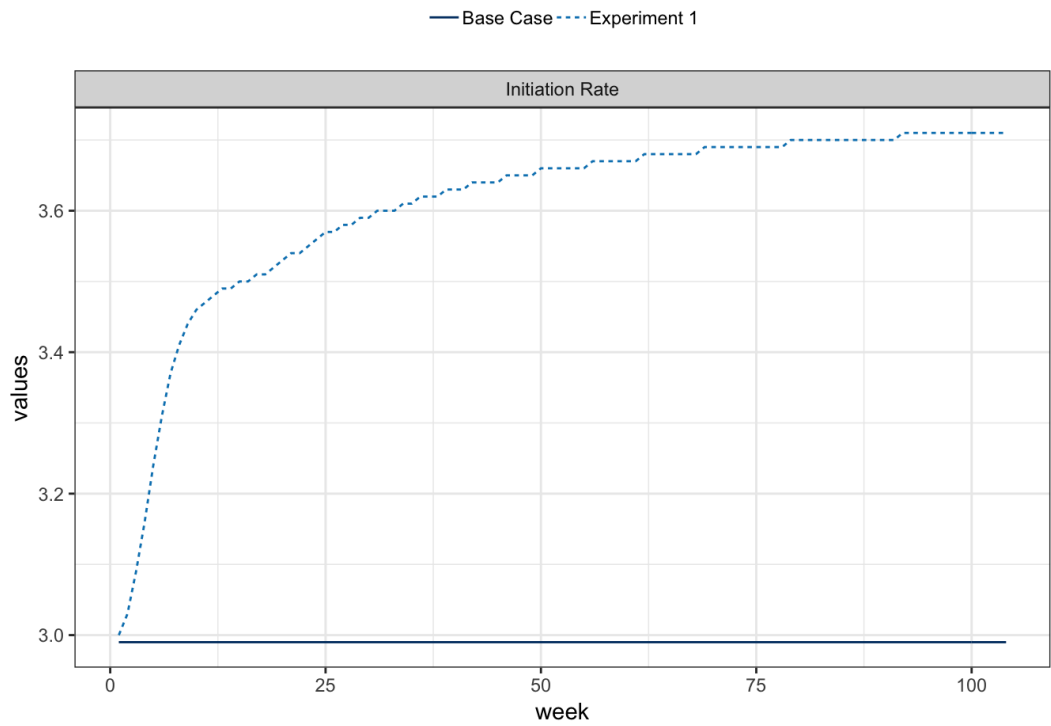
Compare Services: Supply Used by New Patients



Compare Services: Starting Rate



Compare Services: Initiation Rate



Compare Services: Graduation Rate

