

Aggregate Model

Team Experimental Design

Experiment Our Question Our Our Findings Our Decisions Hypothesis

Base Case

How do we keep our quality of care high when we lose staff in team? What would care in our team look like over the next two years if we made no new decisions?

If we make no new decision in our team, then we expect a straight flat line - the same number of patients in each service over the next two years?

There were several flat lines for our services showing that they wouldn't change over the next two years if we made no new decisions. However, we were surprised that adjunctive would have a spike of doubling the number of Veterans waiting for this service from 3 patients waiting to 24 patients waiting to start and leveled out at about 10 patients waiting. For group we see we would drop substantially over the next two years the number Veterans receiving group therapy in our team even if

we made no new

decisions.

As we review patient's treatments needs each week we now know that we are underutilizing our supply of group and putting too much pressure (over-referring) to adjunctive services. Given our pending loss of staff, how can we still meet the needs of our local Veterans?

Experiment 1	How do we keep our quality of care high when we lose staff in team? How can we still meet our local Veterans' needs even with a loss of a psychologist and social worker?	If we lose a psychologist and a social worker, then we expect a 50% reduction in appointment supply for Psy, CC, and Intake, then we expect less Veterans in our team will receive each of these three services.	We would see the number of patients waiting for an intake would double and then level back out. We found that other services were also impacted including a reduction in patients in medication management. Work pressure goes up for CC, PSY, Intakes. RVI gets even longer pulling us farther away from our evidence-based psychotherapy goals.	We want to experiment with ways to have our MD work at top of license and get enough referrals in the time. We don't want a reduction in access. So we need run experiments where adjust the service proportions.

We can begin Experiment How do we If we return to Intakes and 2 maintain our our base case medication to adjust to current level of value for management are refering more access to care intake back to where they Veterans to for new evaluations to were in the base EBPsy instead patients 12 hrs/wk and case. We see that of Psy and CC, (intake) for we adjust our after an initial and we would medication PSY and CC increase in patients get a lot more management? back to base waiting to start Veterans to What happens case, and put EBPsy, we increase EBPsy. to the RVI for their hours patients in EBPsy 8 psychotherapy. evidence fold over the next based two, then ending psychotherapy rate would increase EBPsy. Serve to one new Veteran more patients ending EBPsy per with EBPsy week. who graduate move out of that service in our team. We will adjust our service proportions as well, reducing Psy and CC to 0, and taking the remainder for EBPsy

(14%)

Experiment 3	How do we do even better? We can begin to adjust to referring more Veterans to EBPsy instead of Psy and CC, and we would get a lot more Veterans to EBPsy. But, what if we also adjusted our use of appointment supply and service proportions related to group?	If we reduce appointment supply for group from 10 hrs/wk to 5 hrs/wk, and we adjust service proportions to group 25% and leave EBPsy at 14%, then we'll see more patients starting EBPsy and completing EBPsy without increasing wait-times.	We increased the number of Veterans in Evidence-based Psychotherapy 14 fold over two years. We would have approximately 1 Veteran per week starting/completing an evidence-based psychotherapy course.	Even though we are about to lose a psychologist and social worker in our team, because we reallocated unused group time, and reduce Psy and CC to get more patients to EBPsy, without decreasing access/intakes, keeping medication management at the same level. Rebalanced our existing locals hours.
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Changes to Model Parameters Relative to Base Case

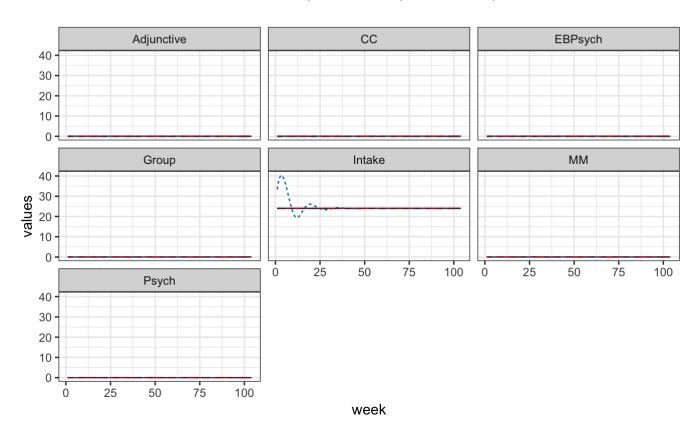
Experiment	Variable	values
Experiment 1	Psych - Appointment Supply	12.00
Experiment 1	CC - Appointment Supply	4.00
Experiment 2	Psych - Appointment Supply	0.00
Experiment 2	Psych - Service Proportions from Team Data	0.00
Experiment 2	EBPsych - Appointment Supply	12.00
Experiment 2	EBPsych - Service Proportions from Team Data	0.14
Experiment 2	CC - Appointment Supply	0.00
Experiment 2	CC - Service Proportions from Team Data	0.00
Experiment 3	Psych - Appointment Supply	0.00
Experiment 3	Psych - Service Proportions from Team Data	0.00
Experiment 3	EBPsych - Appointment Supply	17.00
Experiment 3	EBPsych - Service Proportions from Team Data	0.14

Experiment 3	CC - Appointment Supply	0.00
Experiment 3	CC - Service Proportions from Team Data	0.00
Experiment 3	Group - Service Proportions from Team Data	0.25

Team Graphs

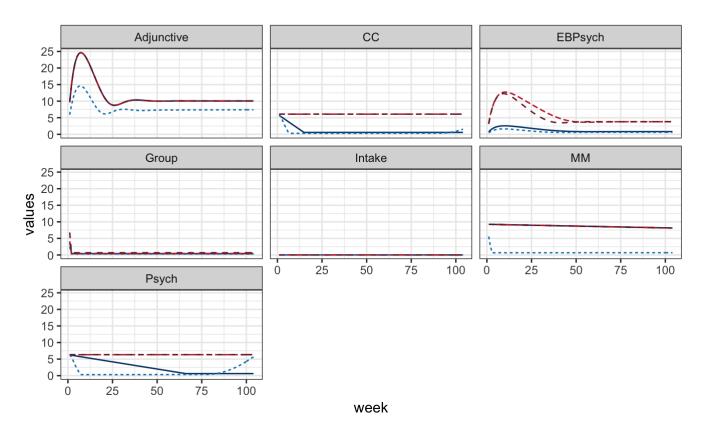
Compare Services: Patients Waiting for Intake Evaluation

Base Case ---- Experiment 1 --- Experiment 2 - - Experiment 3



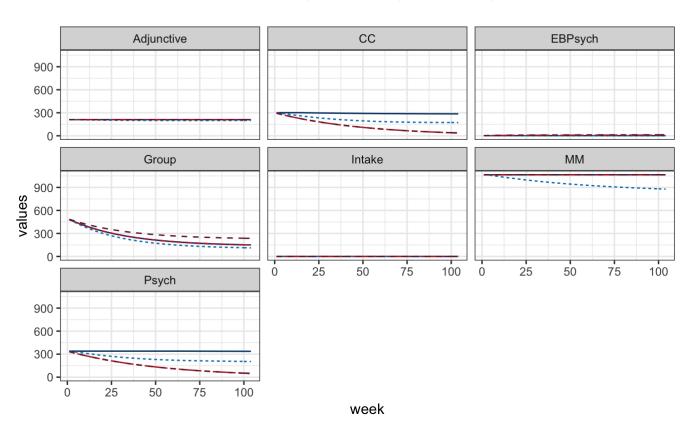
Compare Services: Patients Waiting to Start a Service

--- Base Case ---- Experiment 1 --- Experiment 2 - - Experiment 3



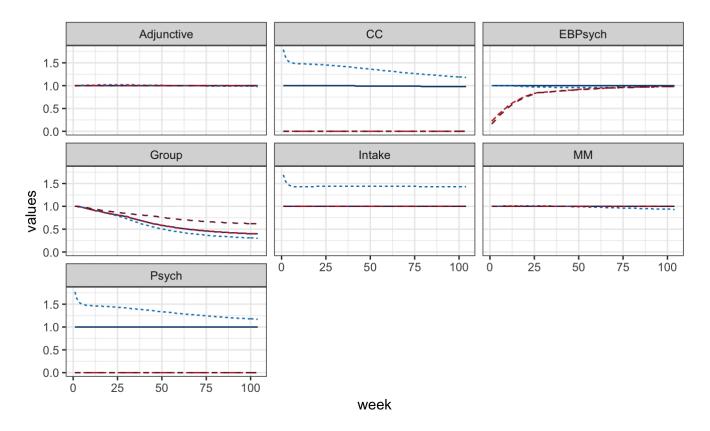
Compare Services: Patients in Service

Base Case ---- Experiment 1 --- Experiment 2 - - Experiment 3



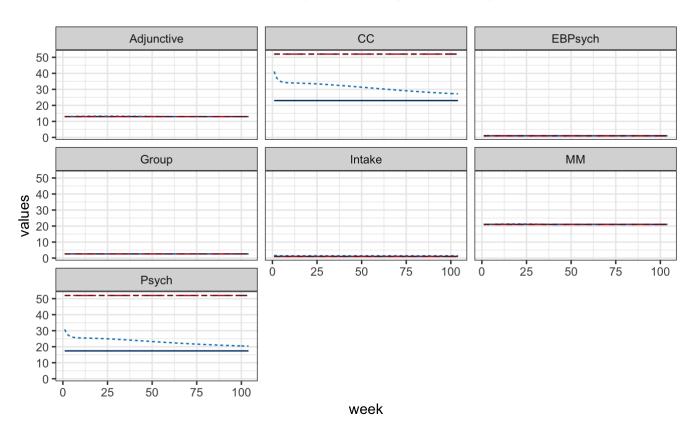
Compare Services: Work Pressure

Base Case ---- Experiment 1 --- Experiment 2 - - Experiment 3



Compare Services: Actual Return Visit Interval

Base Case ---- Experiment 1 --- Experiment 2 - - Experiment 3



Compare Services: Actual Hours Available for Service

--- Base Case ---- Experiment 1 --- Experiment 2 - - Experiment 3

