

Suicide Prevention Model

Team Experimental Design

Experiment	Our Question	Our Hypothesis	Our Findings	Our Decisions
Base Case	How do we improve the quality of care in our team for patients with high symptoms or high suicide risk? What happens to our high symptom and high risk patient populations over the next two year, if we make no new decisions in our team?	If we make no new decisions in our team, we expect that over the next two years we would see no new improvements in quality, our Veterans' suicide risk would stay the same?	If we made no new decisions, then things would stay the same in our team and we would have 4 patients with a high risk.	For next time what will experiment with is implementing measurement based care to see the impact on patients' symptoms and risk.

Experiment How does If we With Next time we implementing implement implementation will measurement measurement of experiment based care to based care, measurement with Stepped impact on we expect based care we Care so that that over the patients' shift the ratio the symptoms next two of high improvements and risk? years we symptom to we are seeing would see low symptom in our team, improvements (60% to 20% don't lead to in quality, high symptom). an increase in which means The number of wait times for patients with a our stepping improvement high risk flag down to PC, rate should go would reduce and try to up, detection by over 50%. understand rates should So, wait times what going on go up, low would go up with why patients will overall, patients remain in care because we waiting to are not for longer, start is still high symptom stepping down going down. patients will this new higher go down, we proportion low should reduce symptoms in the number of our team. high risk flag patients in our team. We expect that **Patients** waiting to start GMH would increase.

If we fully Experiment How does We found that Next time, for 2 implementing implement we would experiment 3 Stepped stepped care reduce the let's combine Care between GMH number of our MBC exp between and PC, then patients 1, and our GMH and we expect waiting to start Stepped Care PC, don't that wait much faster in exp 2. Let's influence wait times to step the Stepped take a look at times for down from Care the overall GMH to PC MHstepping experiment down to PC, would go then in our Continuum of and the step down, and we **MBC** Care or look down rate? expect that experiment. specifically at wait times to The ratio of PC, not just step up from High symptom our own PC to GMH patients to low team. would go symptom down too. patients went up, increasing wait time for step up, wait time to step down went up, we did not get as big of a reduction in our number of high risk flag patients.

Experiment 3	How does implementing MBC and Stepped Care impact our primary goal to decrease patients symptoms and suicide risk? Overall MH Continuum of Care (or look specifically at PC not just our own team?	If we fully implement stepped care between GMH and PC and we implement MBC in our GMH team, then over the next two years we expect to reduced time to improve, time to unflag high risk patients, time to detect; we should see more patients move from high symptom to low symptom, we would expect wait times for patients waiting to start in our GMH team to go down, we expect improvement in the recommended step down rate GMH to PC, and step up from PC to GMH.	The combined experiment reduced our patient load, because of the reinforcing feedback, "higher care quality increase recovery." We reduce the number of high risk flag patients from 4 to 1. We improve wait times for joining our GMH team by nearly 10 times. Wait times for stepping up to SMH are the best under the combined experiment. But we still have more work to do for improving wait times to step back down to primary care.	When we a make a change in our team, we can get several wins for our patients, but those improvements can have tradeoffs and we have to coordinate with other local care settings to address new issues that emerge. As we significantly reduce the proportion of high symptoms in our team, they need a place to go, so we need to work with our PC/PCMHI to find a solution to that.

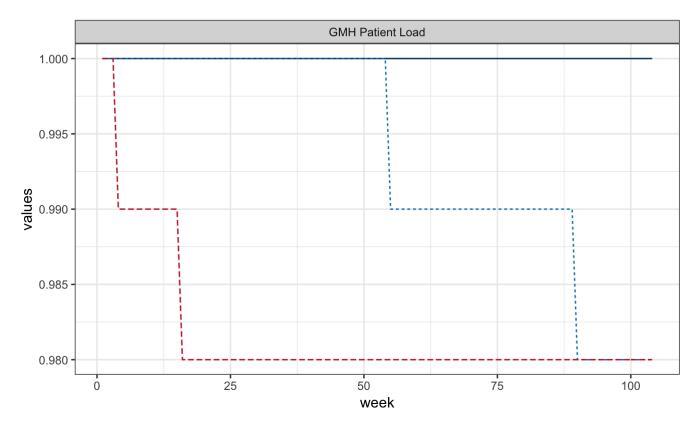
Changes to Model Parameters Relative to Base Case

Experiment	Variable	values
Experiment 1	GMH New Patient Start Rate	6.21
Experiment 1	GMH Manageable Total Patients	517.25

Experiment 1	GMH Time to Detect	6.00
Experiment 1	GMH Time to Ending	67.50
Experiment 1	GMH Time to Improve	26.00
Experiment 1	GMH to PC/PCMHI Engagement Time before Step down	45.50
Experiment 1	GMH New Patient Start Rate	6.21
Experiment 1	GMH Implement MBC	1.00
Experiment 2	GMH New Patient Start Rate	9.36
Experiment 2	GMH Manageable Total Patients	517.25
Experiment 2	GMH Time to Detect	12.00
Experiment 2	GMH Time to Ending	45.00
Experiment 2	GMH Time to Improve	52.00
Experiment 2	GMH to PC/PCMHI Engagement Time before Step down	22.75
Experiment 2	GMH New Patient Start Rate	9.36
Experiment 2	GMH and PC/PCMHI Implement Stepped Care	1.00
Experiment 3	GMH New Patient Start Rate	8.93

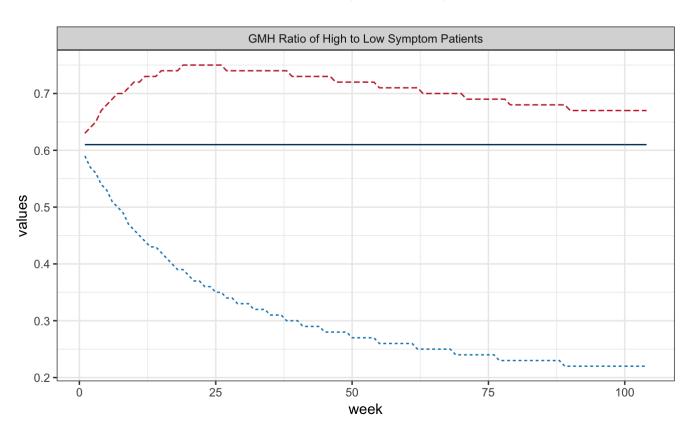
Team Graphs

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



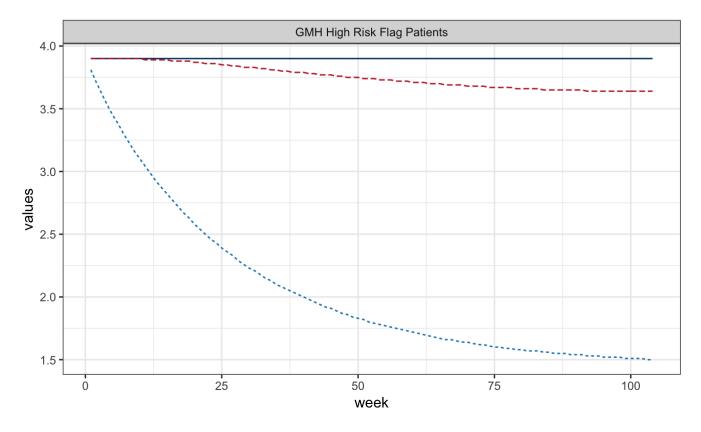
GMH Ratio of High to Low Symptom Patients

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



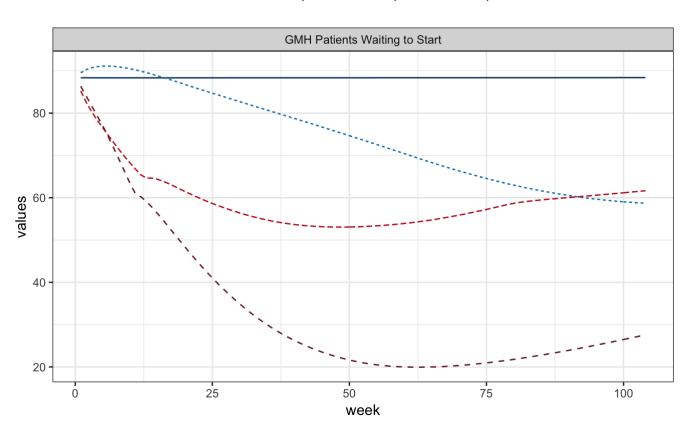
GMH High Risk Flag Patients

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



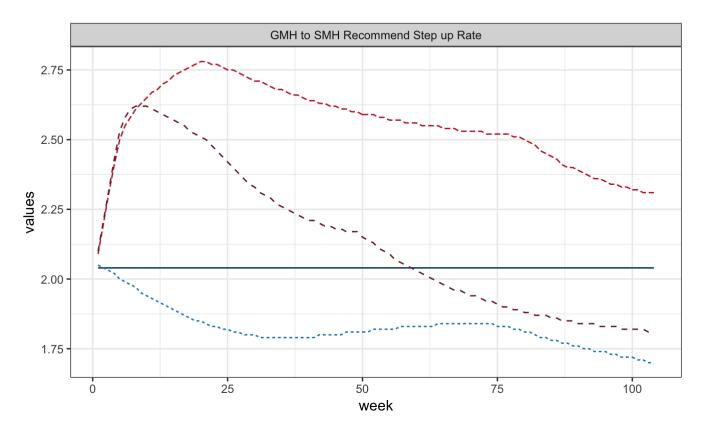
GMH Patients Waiting to Start

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



GMH to SMH Recommend Step up Rate

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



GMH to PC/PCMHI Patients Waiting for Step down

— Base Case ---- Experiment 1 --- Experiment 2

