



Suicide
Prevention
Outreach
Trial

Scaling up outreach interventions

Greg Simon



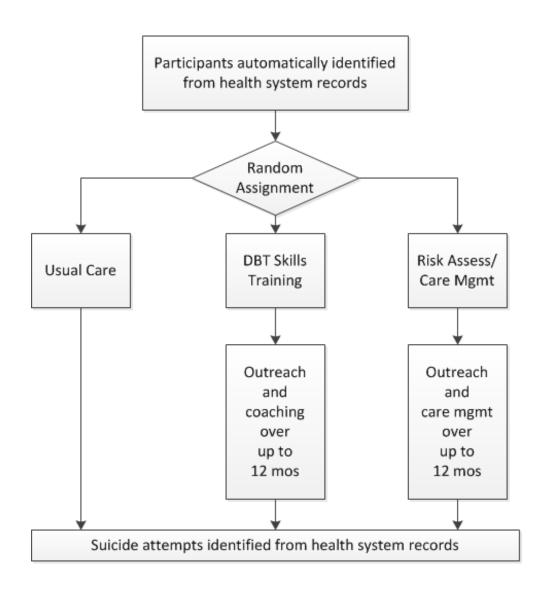




- Pragmatic trial of two outreach interventions to reduce longterm risk of suicide attempt
- Automatically enroll health system patients who report frequent thoughts of death or self-harm
- Randomly assign to continued usual care or to one of two outreach-based interventions
- Examine risk of suicide attempt over 12-18 months after randomization











- Dialectical Behavior Therapy Skills Training
 - Specific emotion regulation skills found to reduce risk of repeat suicide attempt
 - Delivered via interactive online program
 - Supported by an online health coach
- Risk Assessment and Care Management
 - Systematic outreach to assess acute risk
 - Care management to facilitate/maintain appropriate contact with outpatient mental health care



Key points regarding intervention programs



- These are "cold calls" unexpected outreach from an new and unknown representative of the health system
- Cost matters NNT of 100 means that we are looking for an intervention like statins, not like revascularization. Our target cost is <\$100 per patient

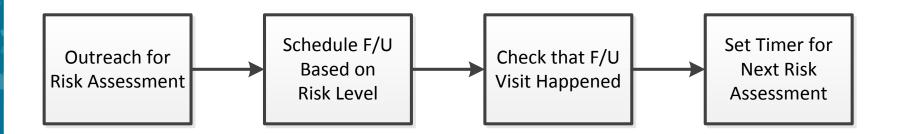




- Outreach and non-specific support
- Systematic assessment of current risk level
- Care management to promote appropriate follow-up care







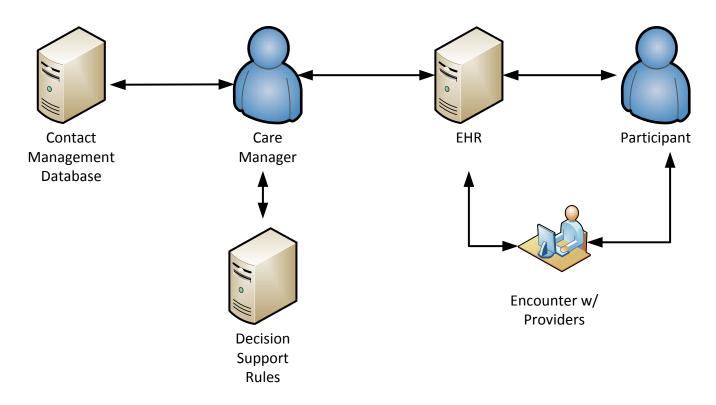
Discrete "cycles" of contact, with time between cycles depending on risk level

Separate logic (and technical structure) for:

- Contact management (When to send a message)
- Decision support (What to say)











- Visits happen and new risk assessments are recorded
- Appointments are made, cancelled, and/or missed
- People ignore our messages or don't always accept our advice

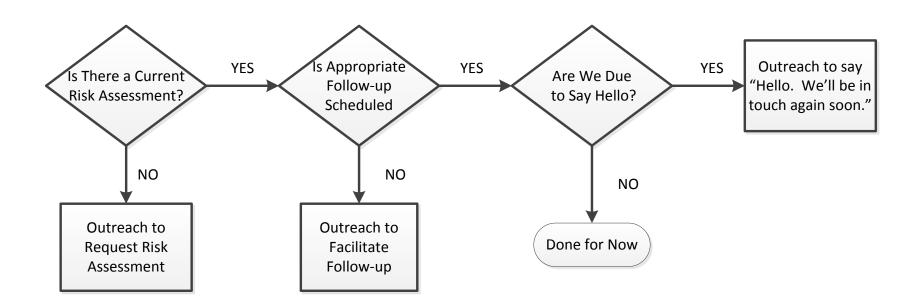




- Our long-term goal is constant maintaining engagement in effective mental health care
- Our short-term tactics are highly variable across people and over time
- Our question is: Given where we are and where we want to go, what is the most helpful thing I could do right now?







Contact management and decision support are inseparable





- Time since most recent risk assessment
- Risk level at most recent assessment (lower risk allows longer time til next assessment)
- Time until next scheduled mental health visit (no need for assessment if visit already scheduled)
- Allowing for care manager's judgment





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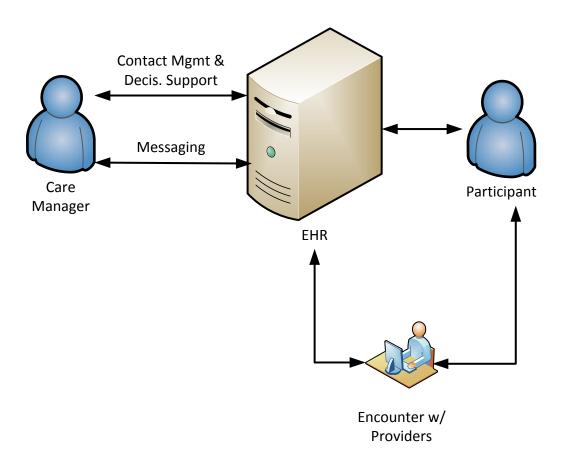




- When we send a message, our participant:
 - Might or might not read it
 - Might or might not reply
 - Might or might not act on our advice
- So we need to wait a bit to see what happens accomplished by a "snooze" feature with variable timing

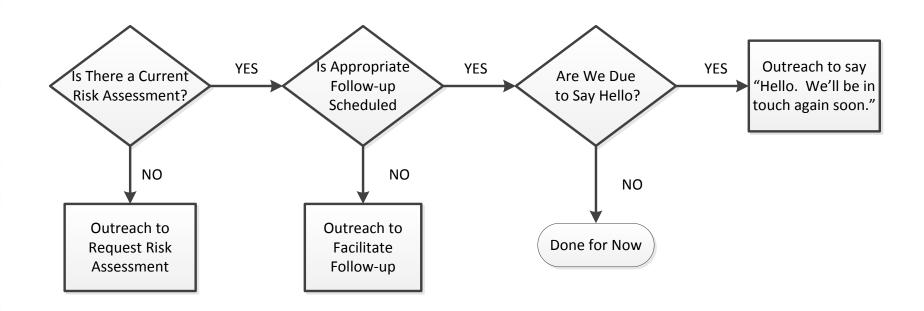








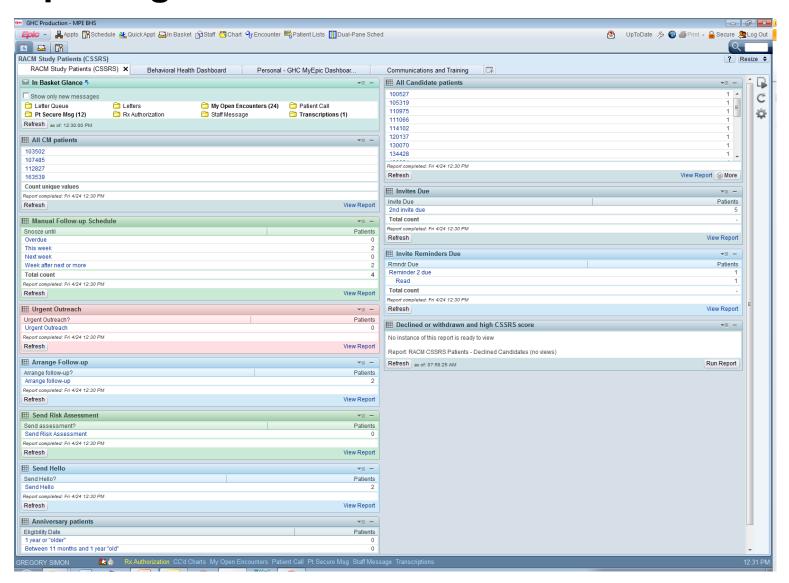




Fortunately, algorithms don't get bored

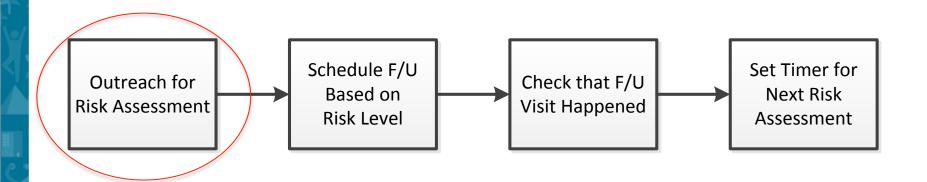
Implemented via Epic Registry and Reporting Workbench functions:





Original plan for quality monitoring



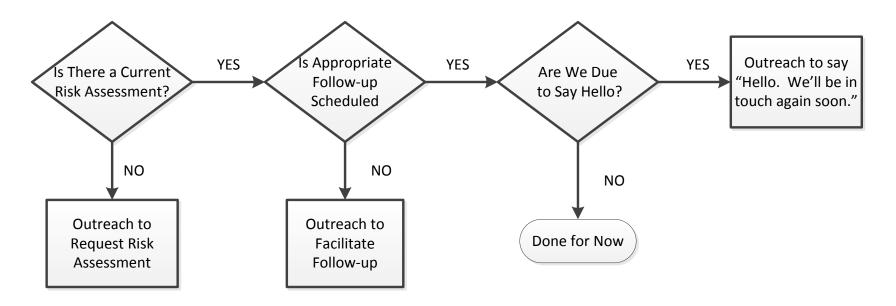


Every contact cycle starts with a risk assessment

Quality/fidelity metric: % of assessments >30 days past due











- Outreach and non-specific support
- Training in specific emotion-regulation skills shown to mediate effect of full-scale Dialectical Behavior Therapy
- Personalized encouragement from online coach





- Deliver multimedia content
- Individualized pathways through content
- Support rules-based outreach and feedback
- Address health system privacy/security concerns
- Integration with usual mental health treatment

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No single solution meets all requirements:



Website

- Deliver multimedia content
- Individualized pathways
- Rules-based outreach and feedback
- Privacy/security concerns
- Integration with usual treatment

EHR Portal





DatStat content management system:

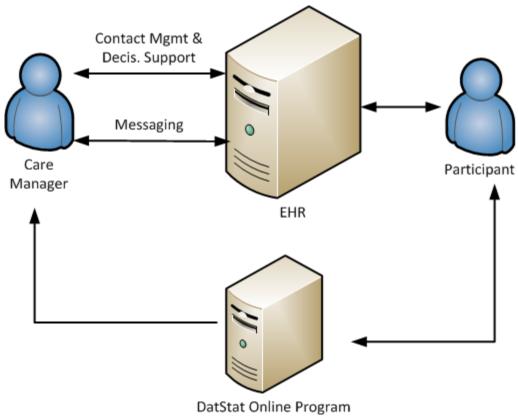
- Deliver multimedia content
- Support individualized pathways
- Rules-based prompts to coach

Epic patient portal:

- Outreach and feedback messages to participants
- Integration with usual mental health treatment



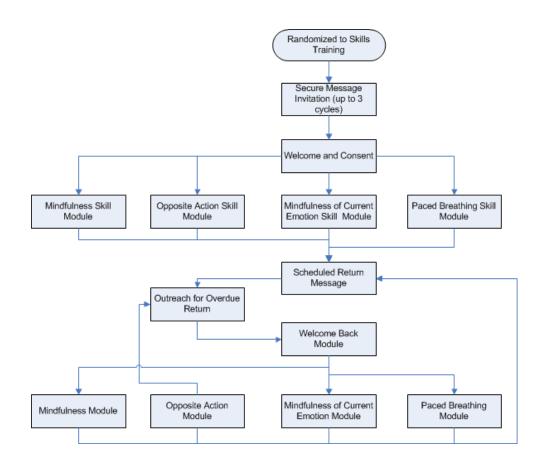






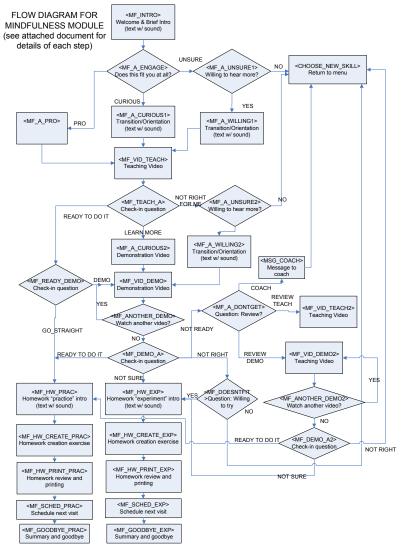
Modular structure of overall program:





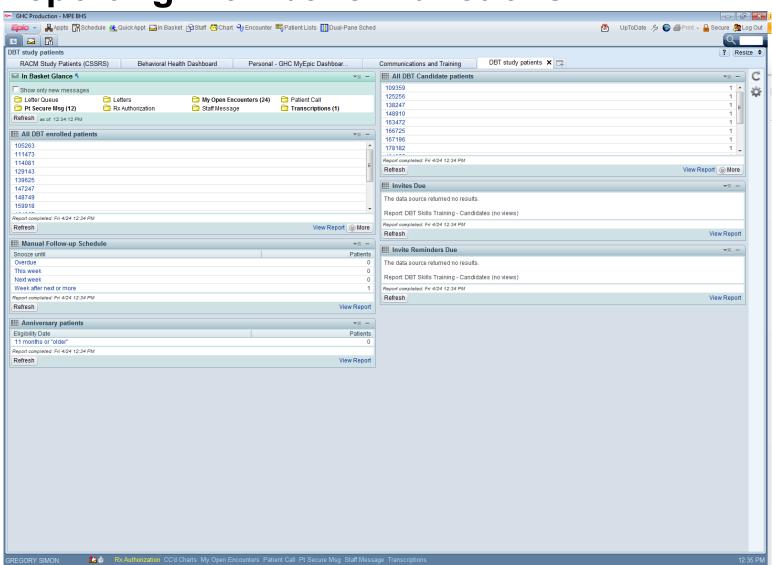






Implemented via Epic Registry and Reporting Workbench functions:







What about "nonspecific support"?



On the one hand:

- Evidence for effectiveness of "caring message" interventions
- Experience with persistent telephonic and secure messaging outreach interventions

On the other hand:

- Very heterogeneous needs both between and within people
- Fear of intrusive or even coercive interventions





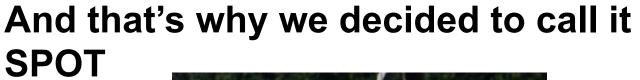
I am a clinical social worker from the Group Health Research Institute. I am working with Group Health mental health and primary care providers to test a support program for people who may be having thoughts about suicide or about hurting themselves. We care about you, and we want to make sure you get the help you need. A new online program called Now Matters Now was designed to give you that help when you need it. The program uses real people to teach specific skills for coping with difficult times.

If you are willing to try this program, click here to find out more.

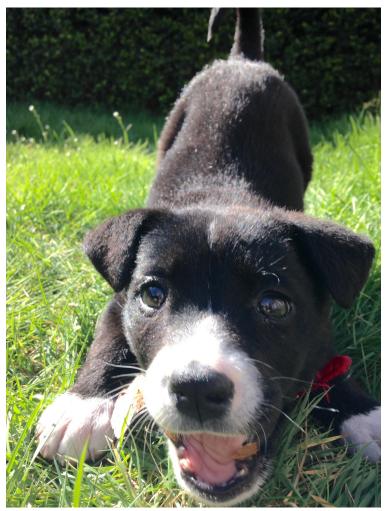




- Partnering with people with lived experience of suicidal ideation and self-harm
- Careful choice of language (borrowing extensively from Motivational Interviewing)
- (For DBT skills program) Extensive use of first-person content







It's a collaborative effort (we need algorithms and puppies)



What computers do well

- Remember
- Apply specific rules
- Deliver information reliably

What people do well

- Identify exceptions
- Communicate
- Care