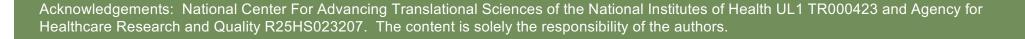
A Toolkit to Support Implementation of a Systems-Based Colorectal Cancer Screening Program in Diverse Primary Care Practices

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Background

- Colorectal cancer screening is effective and widely under-utilized
- Systems-based approaches that reduce structural barriers to colorectal cancer screening are effective for increasing colorectal cancer screening rates
- Primary care practices need support to change care paradigm from visit-based to population-based
- Types of tools and support which are most effective are not well described

Objectives

- 1. Determine the acceptability and usability of a web-based toolkit to support implementation of a systems-based colorectal cancer screening program
- 2. Identify adaptations made to the colorectal cancer screening program across diverse primary care practices

Methods

Setting:

 3 primary care practices (2 hospital-based clinics, 1 federally qualified health center) in the WWAMI region Practice and Research Network (WPRN).

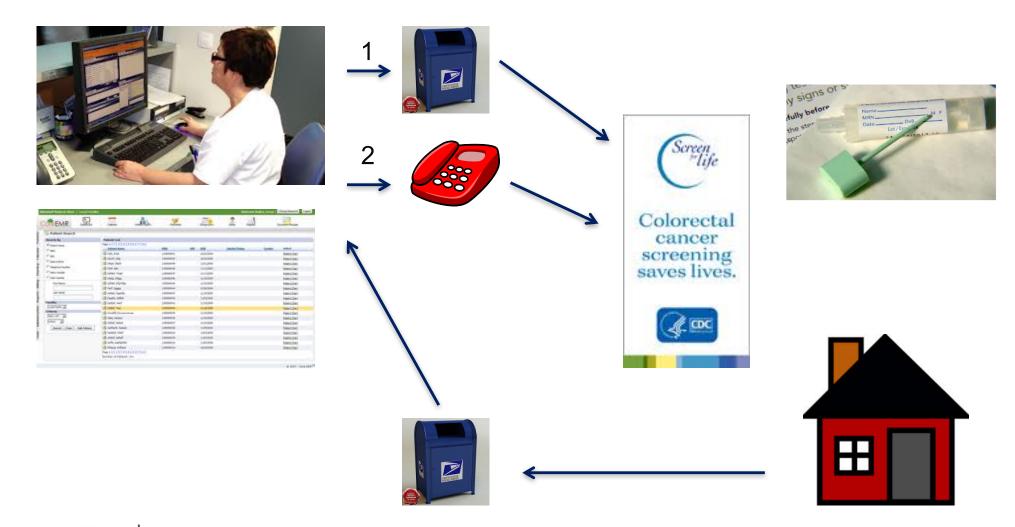
Support Provided:

- Access to ProCRCScreen web-based toolkit to support implementation
- 2 hours in-person technical assistance, additional assistance through telephone and email contact

Evaluation

- Qualitative analysis of interviews with primary care clinical staff and of field notes from technical assistance to assess the usability of toolkit and support
- Measures of completed colorectal cancer screening tests

Mail-based Colorectal Cancer Screening Programs





ProCRCScreen Toolkit

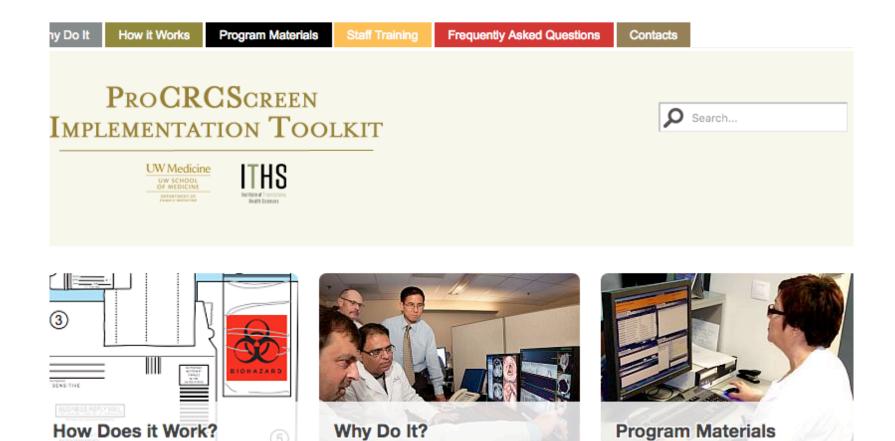


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Adaptations

<u>Site 1</u>

- ► Offered mailed FIT primarily to patients who had previously completed a FIT in the past
- ► Limited success in mailing to all eligible patients resulted in program cessation
- Additional staff hire was needed to meet additional workload demand

<u>Site 2</u>

- Started with small number to estimate return rate and determine potential costs
- ► Lack of a clinical champion delayed implementation

Site 3

- Menu of 4 colorectal cancer screening quality improvement strategies available to teams, including mailed FIT
- Provided onsite patient education and access to phone follow-up as a solution to high level of errors in returned FIT kits. Site would like an phone application or video as an alternative patient education tool.

Results

FIT Kit Return Rate 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% Site 1 (n=90) Site 2 (n=102) Site 3 (n=1383)



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Interview Results

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What promoted adoption?

- Intervention addressed a priority metric for the organization or system
- ► Interest from clinic leadership on this specific intervention
- Past failures to improve this metric created desire for new intervention

"We have done a lot of things to try to improve our colorectal cancer screening rate and we have always had a screening rate of 28-30% an t hasn't changed much. We were looking for something new to try."

Challenges: Financial Barriers

Patients **Patients**

- Access to colonoscopy for uninsured patients (with positive FIT).
- Out of pocket costs for colonoscopy (with positive FIT) are higher as diagnostic test than screening test.

Challenges: Financial Barriers

<u>Clinics</u>

- Organizational cost of implementing and sustaining intervention is high, when return rates are low
- Burden on clinicians and increased workload may require additional staffing

"The main challenge was access to colonoscopy. People can go on a waiting list, but it took a clinic physician to call and move it forward. It took a lot of physician time."

Workflow Challenges

<u>Clinic</u>

- Challenges with accurately identifying patients needing screening
- Difficult and slow to roll out
- No workflow to process returned intro letters, so pre-mailing didn't result in change.
- Additional workload strained staff and physicians

Patients

- Mechanics of putting together FIT kit mailings was technically challenging, resulting in error
- Patients had difficulty understanding and following instructions
- Difficult for clinic staff to reach patients by phone

Challenges: Physician Attitudes

- Physician knowledge and attitudes about perceived inferior effectiveness of FIT, compared to colonoscopy, resulted in push back and limited buy in.
- ► Absence of physician encouragement may have been a deterrent.

Conclusions

- A web-based toolkit is useful in supporting implementation of a systematic colorectal cancer screening program across diverse primary care practices.
- Local context requires significant adaptation of evidencebased programs prior to implementation. The effect of these adaptations on program effectiveness is not clear.
- Support needed
 - Choosing target population
 - Electronic health record/clinic workflow
 - Institutional buy in making the business case
 - Tailoring patient oriented materials
 - Roll out planning

Limitations

- ► Non random recruitment of clinics
- Small scale implementation at all 3 sites
- ► No patient-level data for evaluation

Questions?

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