

Colorectal Cancer Screening Mailed FIT Program at Penn Medicine From Pilot to Scaled, Sustainable System.

Corinne Rhodes MD MPH; Tahira Watson Jefferson Health Partners Sponsored Lecture January 10, 2023

Agenda

PILOT

PDSA CYCLES

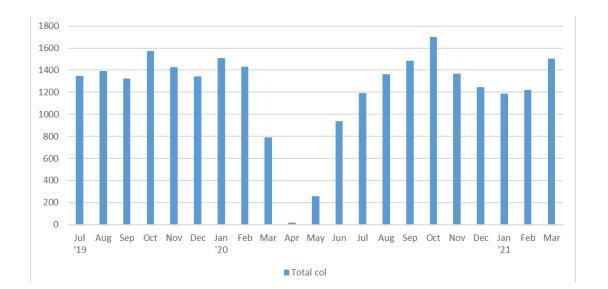
SCALING AND SUSTAINING

COUNTER MEASURES

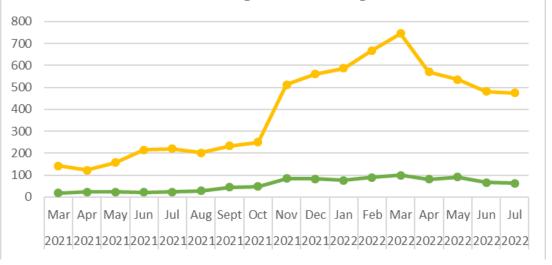
Pilot

What Was the Problem?

- 2020 reduced colonoscopy access during COVID pandemic
- 2021 expanded CRC screening population to 45-49 year olds



CRC Screening 45-49 during visits



- Spring shut elective procedures down.
- With winter surges, colonoscopy volume also dipped.

Additional population
denominator
expansion
exacerbated supplydemand mismatch of
endoscopy access.



Focus on Stool Testing Options



FIT (fecal immunochemical testing):

- Small stool sample in tube
- Every 1 year
- About \$20
- In house testing at Penn Lab
- Lower sensitivity for 1-time use with comparable mortality reduction to colonoscopy when done annually
- Penn has to do outreach and navigation
- •Covered by all insurances

Cologuard (Fecal immunochemical testing + stool DNA):

- •Full stool in box
- •Every 3 years
- •About \$500
- •Exact sciences
- •Higher sensitivity for 1-time use but slightly lower mortality reduction when done every 3 years
- •Exact Sciences performs navigation
- •May not be covered by some Medicaid plans

*Conventional guaiac-based fecal occult blood test (FOBT) is no longer recommended

** Colonoscopy is still the preferred option for CRC per the Penn Medicine Pathway, but FIT is an alternative if patient declines or defers. Cologuard is also an acceptable option for screening. All three are recommended by guidelines.

Important Considerations with Stool Testing

Must Target Appropriate Average Risk Patients

 Iron deficiency anemia, history of polyps, family history of colon cancer, IBD history, masses should NOT get stool based testing

If Positive Results repeating test is NOT appropriate.

- Colonoscopy is appropriate next step
- If patient would not get colonoscopy, reconsider if clinically appropriate for patient to order colon cancer screening

Colonoscopy follow up Timing

 Data shows worsening outcomes with colonoscopy >6-9 months after + stool test

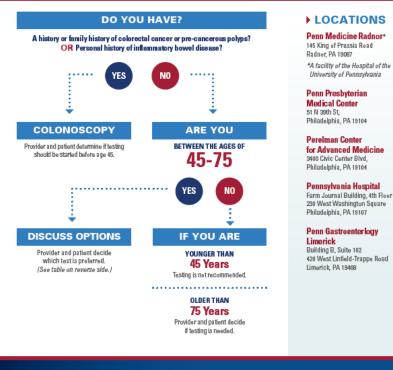
Patient Education

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CHOOSING THE RIGHT TEST

Know Your Risk for Colon Cancer. Early Detection is Key.

Colonoscopy is the most effective method to reduce colorectal cancer-related deaths because it is the most sensitive test among all the available screening tests and it can BOTH detect and prevent cancer. Did you know there are screening options available?



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CHOOSING THE RIGHT TEST

Know Your Risk for Colon Cancer. Early Detection is Key.

	COLONOSCOPY	FECAL IMMUNOCHEMICAL TEST (FIT)			
	Detection and Prevention	Detection			
WHAT IS THIS TEST FOR?	A colonoscopy is a visual test done by a doctor. It uses a tube with a timy camera to look for and remove polyps and cancer inside your colon and rectum.	This is a test that checks for blood in your stool. It is done at home using a kit your doctor will give you.			
	Colonoscopy is the most effective method to reduce colorectal cancer-related deaths because it is the most sensitive test among all the available screening tests and it can BOTH detect and prevent cancer.				
RECOMMENDED GE FOR AVERAGE RISK	45-75	45-75			
FREQUENCY	Every 10 years* "Depending on your needles and physician meanmondution	Every year			
	Preparation: The day before the test, you have to follow a clear liquid diet and do prep that will cause diarrhee (watery stool), so you need to stay neer a toilet. This empties the color so the doctor can have a clear look.	Preparation: You will do this test at home. You do not have to change your diet for this test. You will place a little stool in a vial. The kit will come with instructions for how to use and mail the sample to the lab.			
WHAT TO EXPECT	Will it hurt? No. You will get medication through a vein in your	Will it hurt? No.			
	arm (an IV) that puts you to sleep. You won't feel any discomfort.	Will I have to take time off work? No. You do this test at			
	Will I have to take time off work? Yes. You will need someone to drive you to the center and take you home after.	home at your convenience. *If the test is positive, you will need a colonoscopy to identify if there are polyps or cancer.			
	✓ Reduces death from colorectal cancer.	 Reduces death from colorectal cancer. 			
	 Can prevent cancer by removing polyps (or abnormal 	Safe, available, and easy to complete.			
	growths in the colon) during test.	✓ Done on your own at home.			
KEY FACTS	✓ Examines entire colon.	Detects cancer from small amounts of blood in the stool.			
	 Finds most cancers or polyps that are present at the time of the test. 	✓ Finds most cancers early when done every year.			
	✓ Done every 10 years if no polyps are found.				
	 Stomach pain, gas or bloating is possible before, during or after test. 	 May produce positive test results, even when no polyps or cancer are in the colon. 			
	 Must be performed at a hospital or clinic, usually with 	 When the test is positive, colonoscopy is required. 			
	sedation or anesthesia, and someone must go with you to take you home after the test.	 Person testing themselves comes into brief close contact with stool samples on a test kit and must mail it or take it to a 			
THINGSTO	 A clear liquid diet is required before the test. 	doctor's office or lab.			
CONSIDER	 Must take medication that will cause loose bowel movements to clean out the colon prior to test. 				
	 Likely need to take a day off work/activities. 				
	 Small risk of serious complications (for example, bleeding or perforated colon). 				
COST	Most insurance plans, including Medicare, cover this test. Check with your insurance company about your coverage.	Most insurance plans, including Medicare, cover this test. Check with your insurance company about your coverage.			

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8 April 29, 2025

Provider and Practice Resources

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FIT REFERENCE GUIDE

Fecal Immunochemical Test (FIT) is a colorectal cancer screening test recommended by the US Preventive Services Task Force and the American Cancer Society. It is performed in the patient's home. If the result is positive, a follow-up colonoscopy is needed. If the result is negative, FIT or colonoscopy is needed after one year.

COLONOSCOPY CONSIDERATIONS:

 Colonoscopy is considered the first-line method for colorectal cancer screening methods because it can BOTH detect and prevent cancer.

 Patients with a history of inflammatory bowel disease or colorectal symptoms (bleeding or iron deficiency anemia) should receive a colonoscopy.

PATIENT IS ELIGIBLE IF:

Between the ages of 50 and 75
At "average risk" for colorectal cancer¹



REMIND PATIENT TO:

Put the sample date on the bottle and envelope.

Include the lab form in the return envelope.
Mail the sample within 24 hours of collection.

P BE SURE TO:

~

 Label the collection tube with DOB/MRN and the lab account number.

 Put the lab form in the return envelope when giving the kit to the patient.

PATIENT INSTRUCTIONS:

 Patients will receive instructions about sample collection and submission with their kit.

 No personal or family history of colonectal cancer or polypic, 2: Has not had colonoscopy in 10 years, CT colongraphy histraal acionoscopy, fiendite sigmioidoscopy, or doublecontrast bakim enem in 5 years; ficeal immunochemical or guaiae-based ficeal occult blood in past year, cot DNA text in 3 years.

WHAT IF:

...patient says they sent FIT and haven't gotten a result?

Contact client services at 215.662.4808 with patient name, MRN, DOB and date of sample collection.

...patient forgets to write the collection date on the sample?

The sample will be resulted and will include the following text. "Collection date not provided, interpret results with caution as false negative results may occur for samples tested >14 days after collection." Additionally, samples not labeled properly with patient name and second identifier will be canceled.

...sample is not received within 14 days?

If the sample is not received within 14 days, the following text will be sent instead of a result: "Testing cannot be performed as specimen was received >14 days after collection; the request has been canceled."

...the sample is not collected properly?

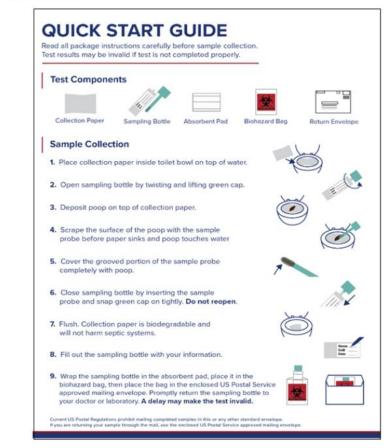
If the sample is not received properly (e.g., there is no liquid in collection tube, there is obvious blood, raw stool is submitted in container) the following text will be sent instead of result: "Polymedco OC sampling bottle improperly inoculated. "Est canceled."

... I have more questions?

For questions about FIT supplies, FIT results, lost FIT kits or PennChart, call:

PENN LAB CLIENT SERVICES 215.662.4808

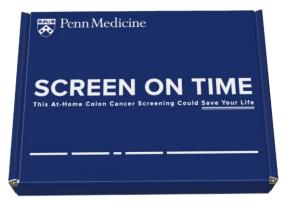
Instructions



Foundation for Centralized FIT kits mailing

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	Search	growse (F4) Breference List	t (#5) Cle	ar Selected
		II II	III Selecter	d Orders
& Bulk Orders	Bulk Orders			
	Labs			
	Labcorp HEMOGLOBIN A1C	URINE ALBUMIN/CREATININE RATIO		
	Quest HEMOGLOBIN ATC	URINE ALBUMIN/CREATININE RATIO		
	Sunquest HEMDGLOBIN A1C	URINE ALBUMIN/CREATININE RATIO		
	Penn PIT Test HEMOGLOBIN ATC	URNE ALBUMIN/CREATININE RATIO		
	Imaging Mammo Screening Biateral Diagnostic and Biateral (Biateral Diagnostic and Biateral Utrasound if Neccol)	Mammo Screening Biateral Tomosynthesis Mammo Screening Biateral Tomosynthesis (Biateral Diagnostic and Biateral Unscrud / Needed)		
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	Pulmonology SROWETRY (OFFICE) (94010)			
	Cardiology Dechocard ogram			
	Center for Healthcare Innovations		~	
<u></u>	Labcorn Letters			

Targeted reports for average risk patient



Vendor partner to package and mail kits



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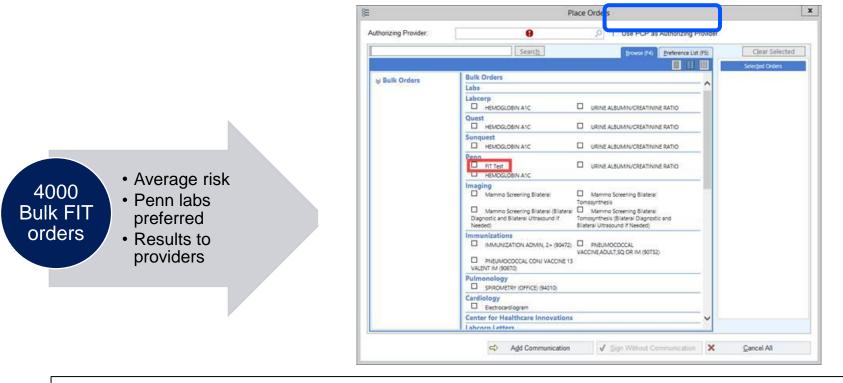
Supply Chain for FIT and Lab capacity for Tests



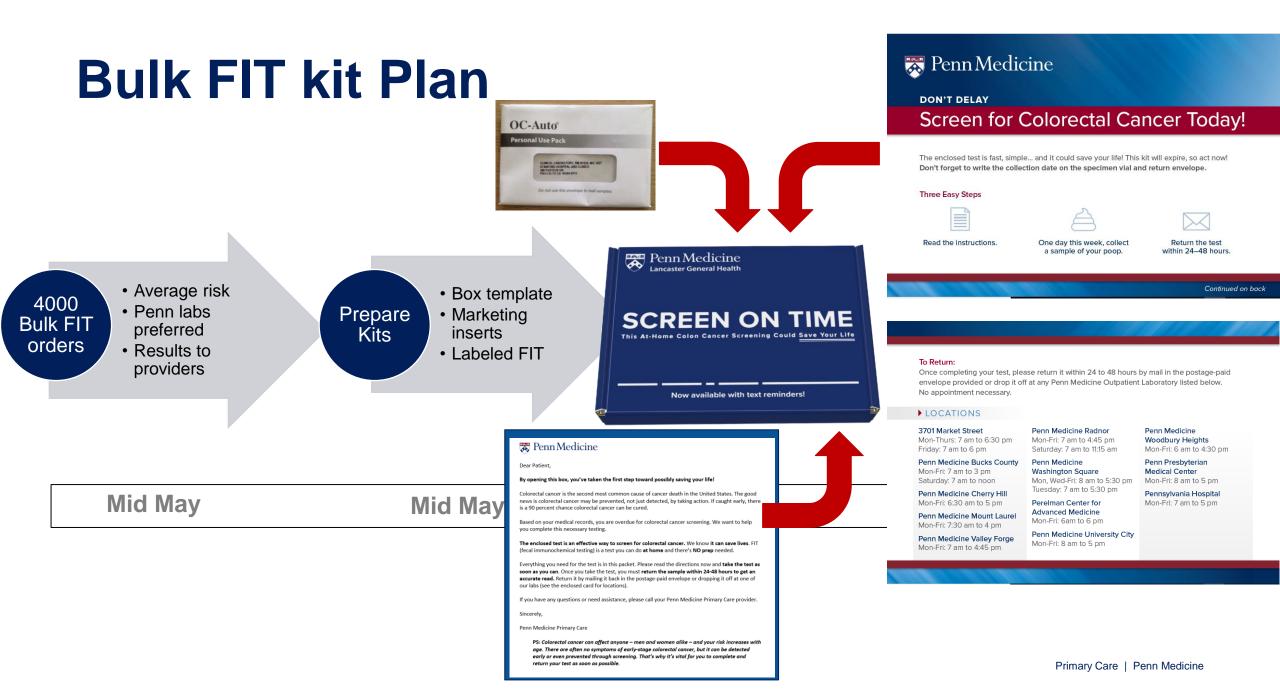
Population Health navigation and reminders via Text

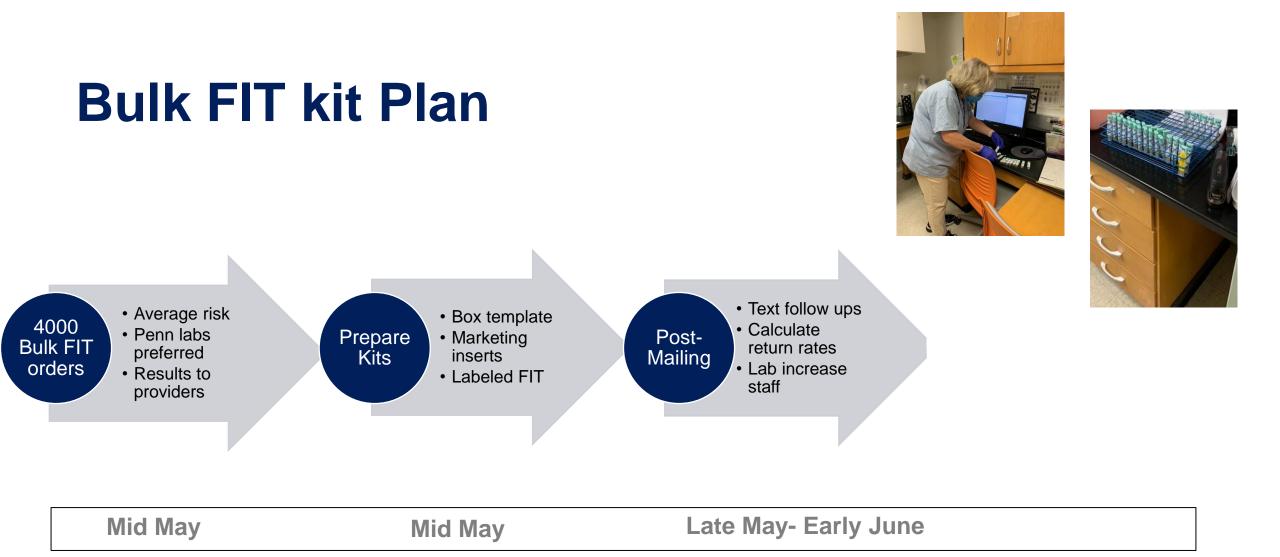
Primary Care | Penn Medicine

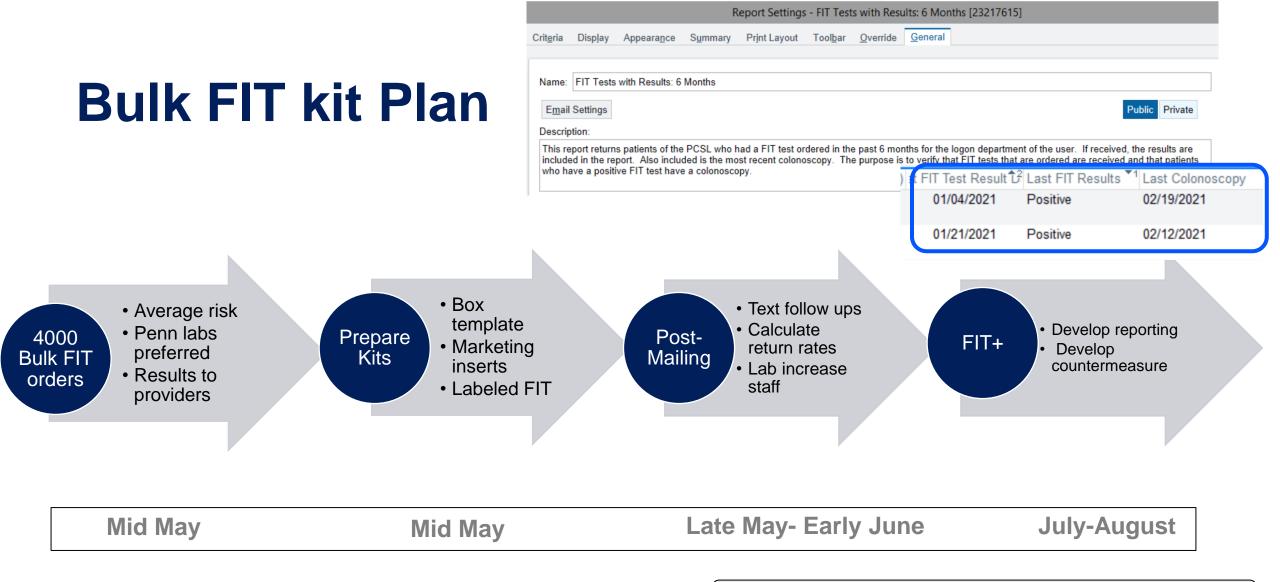
Bulk FIT kit Plan



Mid May



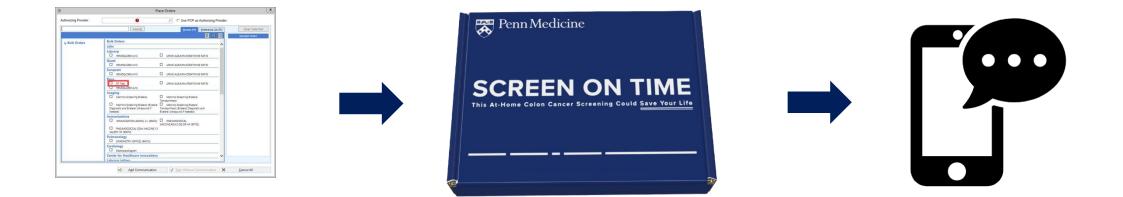




Countermeasure: FIT+ to colonoscopy >80%

Spring 2021: Penn Med CRC Outreach

4,000 mailed FIT kits at 12 practices in Philadelphia area



Not randomized

25% response rate

24% FIT+ scheduled or completed colonoscopy

PDSA Cycles

Voice of Customer: What went well?

- "Harnessing data centrally. Having this run centrally. Strong data support. Attractive looking boxes.
- "Prioritization of CRC as a quality goal. Only sent to those who were not up to date."
- "I like that we are trying to stay on top of patient's cancer screenings, especially after the pandemic when most people kind of let health concerns go."
- "That MAs got trained to counsel patients on the instructions for FIT testing."
- "Great to see those FIT tests rolling in."
- "Like that I was able to get a patient in for COY following positive result."
- "Automatic, didn't involve my time until there were results to manage."
- "Centralized process with nice kit developed by marketing. Looks better than what we normally give out.
- "Texting support also great."

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Voice of Customer: What didn't work well?

- "My patient had every plan to do a COY but did FIT anyway."
- "I'm not certain if pts knew how to do it correctly."
- "Didn't hear many details, would have liked a 1 page explanation or brief email with details."
- "Trouble with mail not getting returned appropriately."
- "Would be great to create a colonoscopy scheduling pool for +FIT tests so once we inform pt. of results
- we can route it to PSR that can assist with scheduling colonoscopy directly with out having to call and go through the call center."
- "I don't recall getting a general message stating this was going to take place. I found out after FIT kits were already mailed.
- Also, some patients already had Cologuards in process or colonoscopies scheduled, thereby duplicating the process."

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Voice of Customer: Change one thing.

- "Having and instruction sheet outside the envelope would make it easier/faster to explain."
- "Make clear (or clearer) who has received a kit."
- "More advertising / notifications ahead of time the roll out was a little fast."
- "Phone outreach to high risk pts."
- "Automatic notification of patient of negative results with a note and CC to the provider. If Positive result

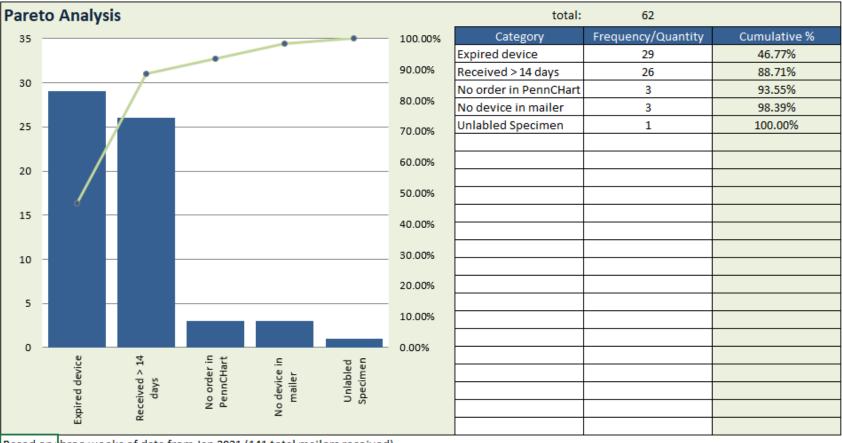
 automatic next steps in place (like if positive mammogram) including a staff RN to call patient and
 discuss, auto consultation to colonoscopy with GI reach out, education about prep, and prescribing the
 prep."
- "Continuous mailing out and managing over the year rather than a single campaign, or a way to refer someone into the text reminder system if I give them a FIT kit in the office."

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A Blueprint for Quality & Patient Safety

FIT Failures



Based on hree weeks of data from Jan 2021 (141 total mailers received)

Spring 2022: Pragmatic Trial of FIT Outreach

Goal: Evaluate different approaches to increase colorectal cancer screening among primary care patients at Penn Medicine through a centralized screening outreach program, including:



Differentiated packaging

Text reminders

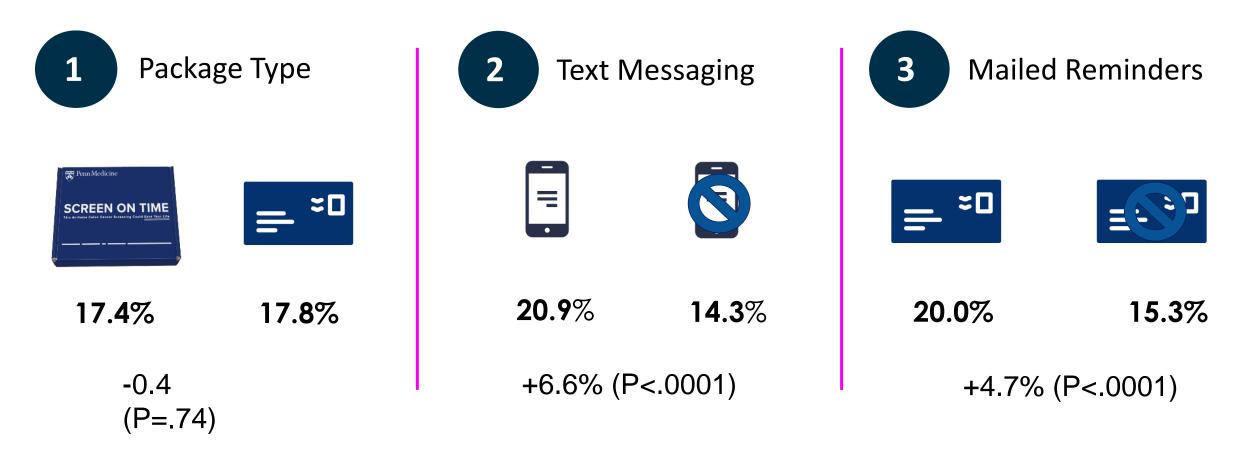


Personalized mailed reminders

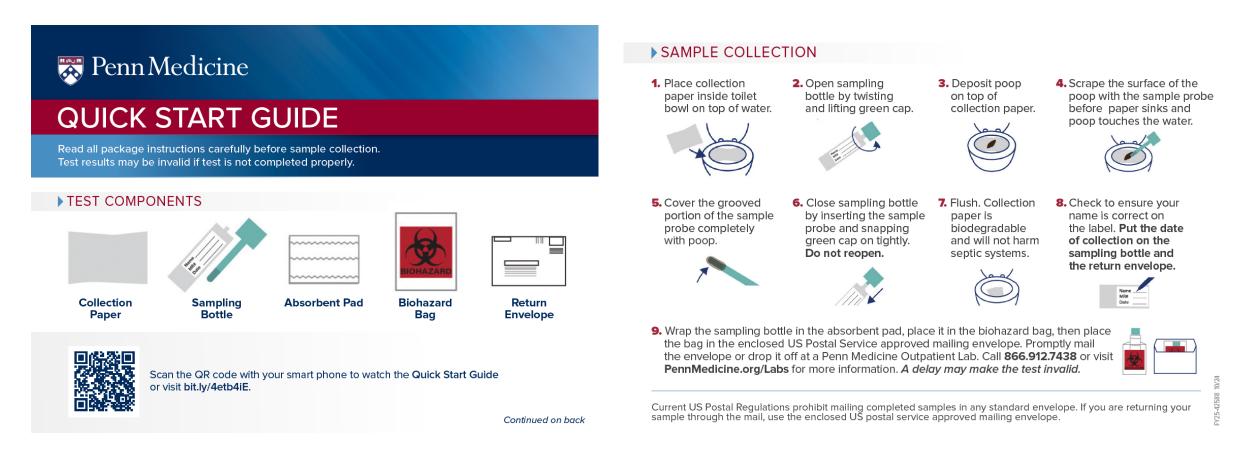
4 Month FIT Completion

Primary Outcome, by combined arm

4 Month FIT Completion: 924/5,244 (17.6%)



Evolving Outreach via PDSA Cycles IMPROVED PACKAGING



Evolving Outreach via PDSA Cycles ENCOURAGE DROP OFF AT LABS

Penn Medicine

DON'T DELAY

Screen for Colorectal Cancer Today!

The enclosed test is fast, simple... and it could save your life! This kit will expire, so act now! Don't forget to write the collection date on the specimen vial and the return envelope.

THREE EASY STEPS

Read the instructions.

One day this week, collect a sample of your poop.

TO RETURN

Once you have completed your test, please return it **immediately** by mail in the postage-paid envelope provided or drop it off at any Penn Medicine Outpatient Laboratory listed on the back side.

No appointment necessary. For questions, please call 866.912.7438. For more information, please visit PennMedicine.org/Labs.

Continued on back

Return the test immediately

after completion.

Drop off as soon as possible to nearest

Penn Medicine laboratory, locations

on back of card. Please mail sample if

vou are unable to drop off.

LOCATIONS

Penn Internal Medicine University City 3701 Market Street, Ground Floor Philadelphia, PA 19104

Penn Medicine Bucks County 777 Township Line Road Yardlev, PA 19067

Penn Medicine Cherry Hill 1865 Route 70 East Cherry Hill, NJ 08003

Penn Medicine Mount Laurel 5000 Dearborn Circle, Suite 100 Mount Laurel, NJ 08054

Penn Medicine Valley Forge 1001 Chesterbrook Boulevard Berwyn, PA 19312

Penn Medicine Radnor 145 King of Prussia Road

Suite 105 North Radnor, PA 19087

Penn Medicine Washington Square 800 Walnut Street, 8th Floor Philadelphia, PA 19107

Perelman Center for Advanced Medicine

3400 Civic Center Boulevard East Pavilion. 1st Floor Philadelphia, PA 19104

Penn Medicine University City

3737 Market Street, 7th Floor Philadelphia, PA 19104

1006 Mantua Pike Woodbury Heights, NJ 08097

Penn Presbyterian Medical Center

51 N. 39th Street Cupp Pavilion Philadelphia, PA 19104

Pennsylvania Hospital

1 Cathcart

Kennett Medical Campus 400 McFarlan Road Suite 301

Penn Medicine Exton

700 West Lincoln Highway Suite 716 Exton, PA 19341

Penn Medicine Southern Chester County 455 Woodview Road Suite 110 West Grove, PA 19390

Penn Medicine Woodbury Heights

800 Spruce Street

Philadelphia, PA 1910

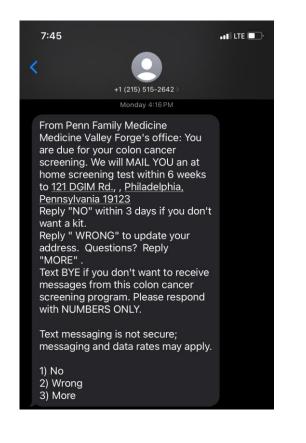
Kennett Square, PA 19348

Scan the QR code with your smart phone for Penn Medicine laboratory hours or visit PennMedicine.org/Labs.

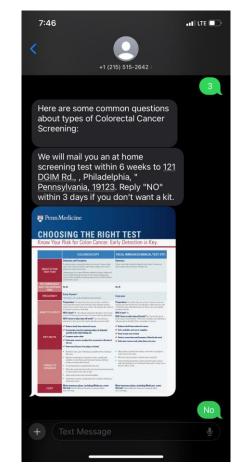
FY25-42591 9/24

Evolving Outreach via PDSA Cycles IMPROVED MESSAGING – OPT OUT

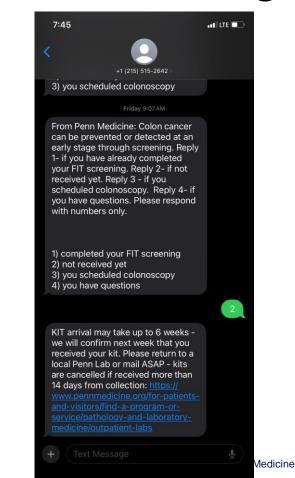
Day 1 Message 1



More Prompt:



Reminder Message:



Evolving Outreach via PDSA Cycles ADDING NAVIGATION

Referral available in system

	TION – COLORECTAL CANCER SCREENING	✓ <u>A</u> ccept					Caution
Process Instructions:	This navigation order is an internal order for PCSL practices in Philadelphia. Prese important the two sets at all from the Vavigation Team. Only refer patients NOT at average risk - FIT completion support not provided by this team.			essing this record mal	patient with the same ce sure you are access ents of the following:	ng the right one. V	erify at least
Reason for Navigatio	n Order (barriers) Additional Education Escort Obtaining Prep Prior Missed Colonoscopy Prior Poor Pre	ep 🗌 Transpo	rt				
Supportive Clinical D	ata 🗌 Change in Bowel Habits 🔲 FIT+ 🗋 GI Bleeding 📄 IDA 📄 Other High Priority 🗋 Screening						
	Weight Loss Prior Polyp						
Special Contact Cons	iderations						
Comments:							
				O Dx Association	🖋 Edit <u>M</u> ultiple 👘	🛛 <u>E</u> stimate	Options •
				Standard			
	4		•	n After Visit			
CC Results:	🕂 My List 👻 🕂 Care Team 👻 🕂 Other				AVIGATION - COLOF	ECTAL CANCER	
	Enter recipients			SCREENING	mal		
	Internal referral			R HUP - PCAM Pha	armacy 19104 Philade 43-2345 (215-662-		c Cntr Blvd 10
Class:							
Class: Jext Required		✓ <u>A</u> ccept	X Cancel		🗸 Approve A	JI 🗙 Refuse All	Uncheck

- Navigation team is outreaching to <u>black patients</u> that have not returned their Fit Kits
- Centralized and navigation team share a patient list to keep track of patient outreach

Possible Outcomes

- Patient has kit
 - Patient is reminded to complete FIT Kit
- Patient has not received kit
 - Patient will be added to our next outreach
- Patient wants colonoscopy instead
 - GI contact provided to patients and order will be pended if needed

Evolving Outreach via PDSA Cycles IMPROVING PRACTICE COMMUNICATION

- Target Practice Regions at same time frame each year
- Work with leadership to ensure messages get to practices, call centers, staff, and providers

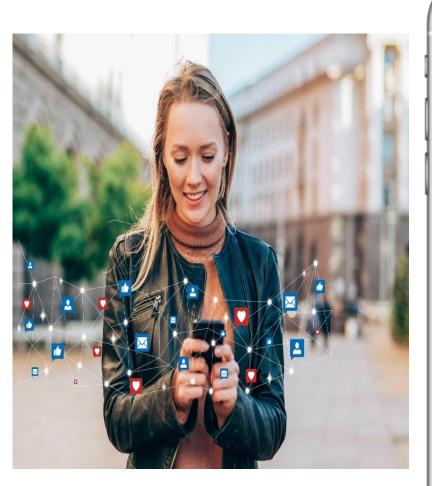
The goal of these colon cancer screening text messages is to provide **direct outreach for eligible average risk patients to increase colorectal cancer screening**. This will be done on a *centralized* basis, to reduce the burden on providers and clinics.

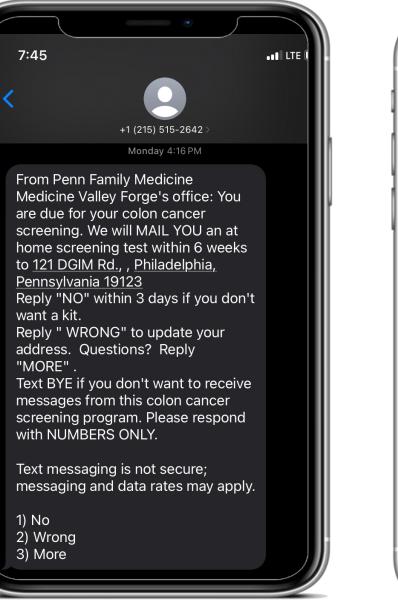
This is the 5th annual outreach – we hope this will be a streamlined process for patients, providers, and staff.

What you need to know

- **Patients will be getting text messaging** (next slides) to remind them to complete their FIT target date of first message *** **, 2025.
- We expect to get increased calls and messages as a result of this message
 - Some patients will request a colonoscopy order instead of FIT OR Request a 2nd kit
 - Please use your clinic's usual workflow (telephone message to provider ± pended order, etc.)
 - Other patients will report they had a colonoscopy completed somewhere else
 - Please get date and site of colonoscopy completion and ask patient to send to send documentation to clinic. Please route to population health team and FYI to PCP.
 - Potential other feedback:
 - If patient had inappropriate outreach, has a complaint about outreach, or is referring to PCP's participation please let them know "This was a centralized outreach by Penn's population health team, thank you for your feedback, I will pass along to your PCP and the planning team." Route to PCP who can pass to central team if appropriate.

What The Patients See





Friday 9:07 AM From Penn Medicine: Colon cancer can be prevented or detected at an early stage through screening. Reply 1- if you have already completed your FIT screening. Reply 2- if not received yet. Reply 3 - if you scheduled colonoscopy. Reply 4- if you have questions. Please respond with numbers only. 1) completed your FIT screening 2) not received yet 3) you scheduled colonoscopy 4) you have questions KIT arrival may take up to 6 weeks we will confirm next week that you received your kit. Please return to a local Penn Lab or mail ASAP - kits are cancelled if received more than 14 days from collection: https://

Scale and Sustain

Population Health Outreach Overview

LONGITUDINAL, CONTINUOUS CENTRAL OUTREACH PROGRAMS INFORMED BY 3 YEARS OF RESEARCH AND PDSA CYCLES.



MONTHLY DIABETES LAB OUTREACH

DOTBot (Diabetes Outreach Text Bot): Text-based program encouraging patients to complete lab work previously ordered by their provider.

~1500 patients/month

Centrally Managed



MONTHLY MAMMOGRAM OUTREACH

Breast cancer screening program: Remind patients to schedule mammograms via text. ~1500 patients per month.

WEEKLY MED ADHERENCE

Ensuring medication supply for patients by proactively prompting refills via text. ~200 outreach/week

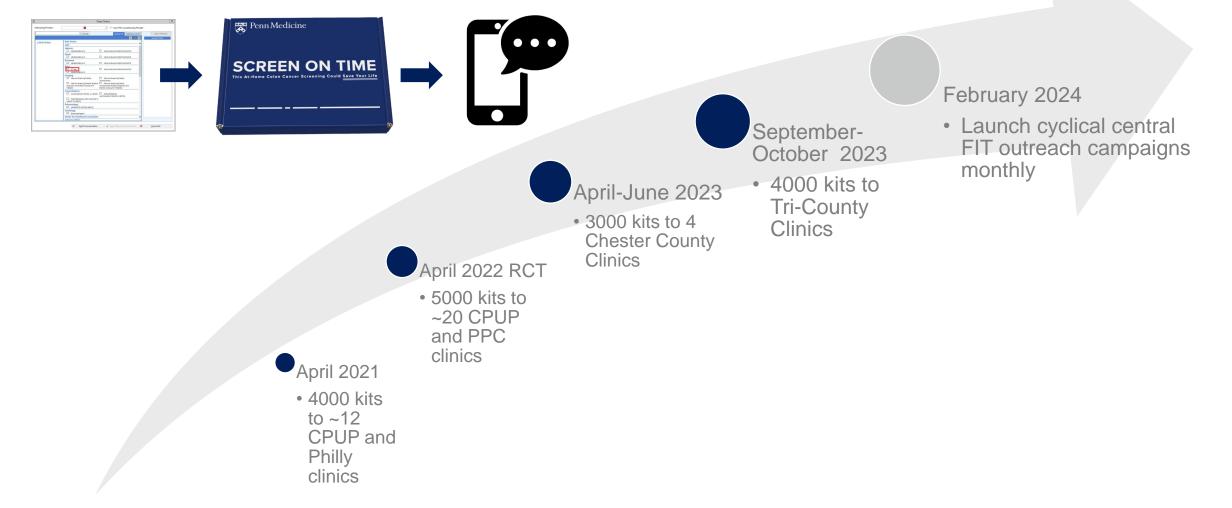


MONTHLY COLORECTAL CANCER OUTREACH

FIT Kit outreach program. Complements active research program

~2000 kits mailed/month

Evolution of Centralized FIT Campaigns

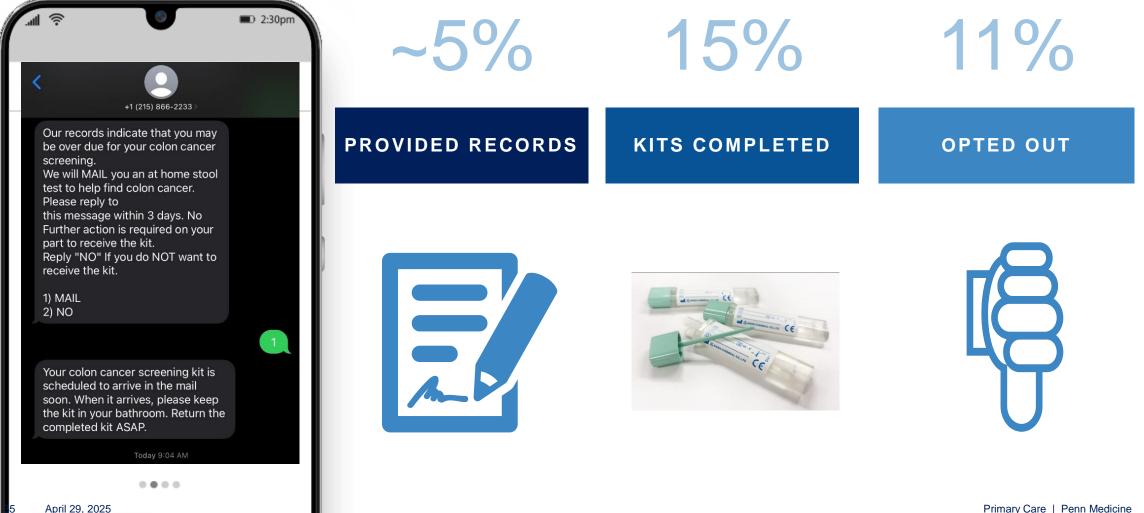


Monthly Cycle:

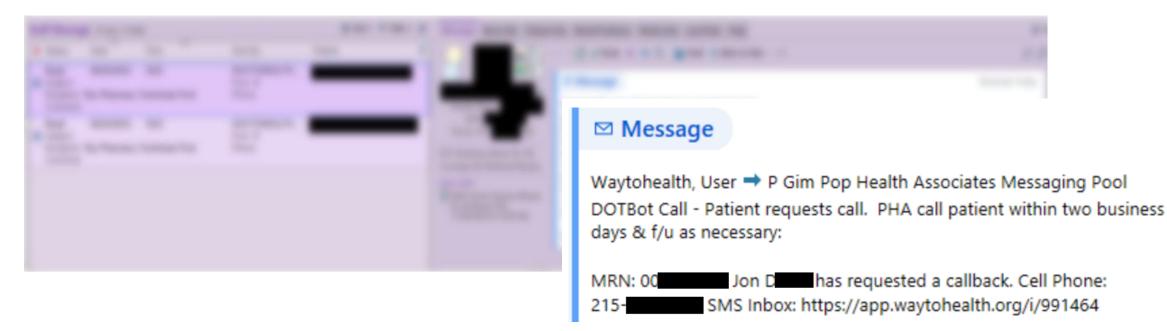
- About a 2 month cycle from bulk signing to return of kits
- Data analytics target average risk patients
 WITHOUT upcoming colonoscopy scheduled
- Initial Opt in to ensure kits not sent to patients who do not want – and opportunity to close gaps by eliciting any colon cancer screening
- Each patient gets 2 reminders at day 35 and 42 and responses go out our population health team

		J	une 202	4		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 bulk sign june
2	3	4 June opt out	5	6	7	8
9	<u>10</u> List to 3 rd party vendor	11	12	13	14	15
16	17	18	19	10	21 june Kits ship	22
23	24	25	26	27	28	29 bulk sign july
		٦	uly 202	4		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	1	2 <u>July Opt</u> out	3	4	5	6
7	8 <u>List to 3rd party vendor</u>	9 Fit r	10 eminder June	11 +35	12	13
14	15	16 Fit r	17 eminder June	18 +42	19 july Kits ship	20
21	22	23	24	25	26	27
28	29	30	31			

FIT Campaigns – Expected Results

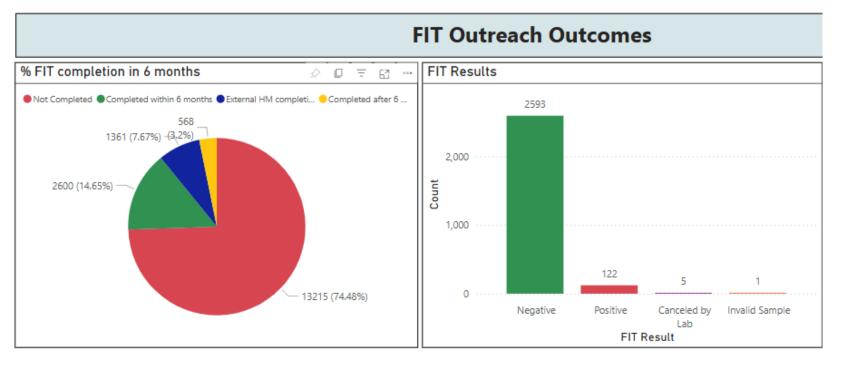


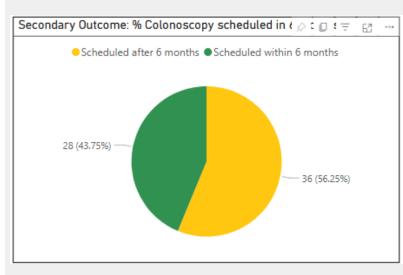
Population Health Team EHR View INTEGRATE TASKS DIRECTLY INTO EHR

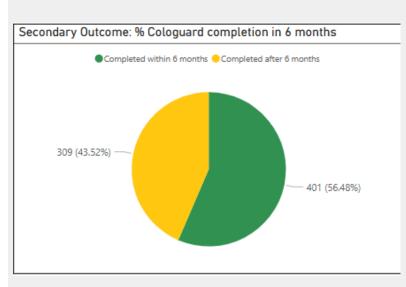


This allows our team to directly respond in EHR via text or call

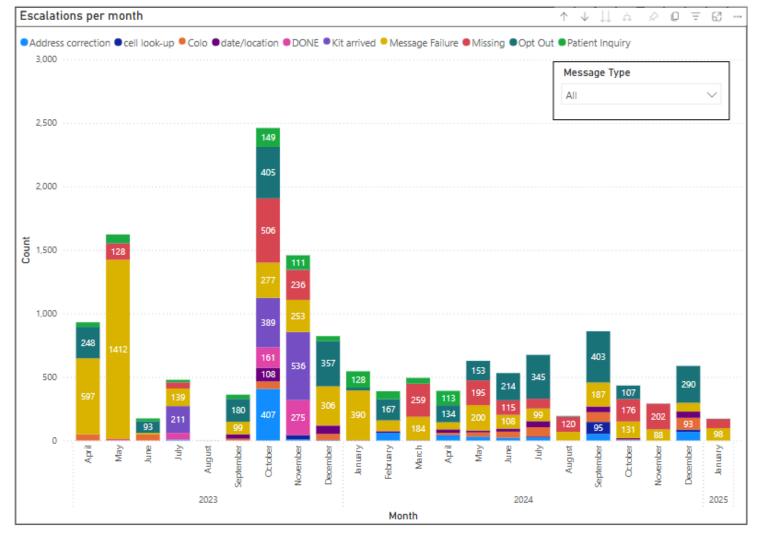
Tracking Dashboards: OVERALL PRIMARY AND SECONDARY OUTCOMES

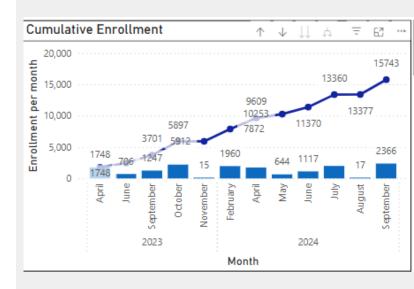


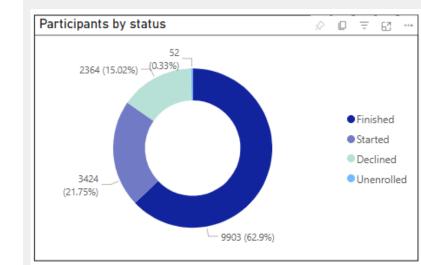




Tracking Dashboards: OVERALL VOLUME AND ESCALATIONS







Primary Care | Penn Medicine

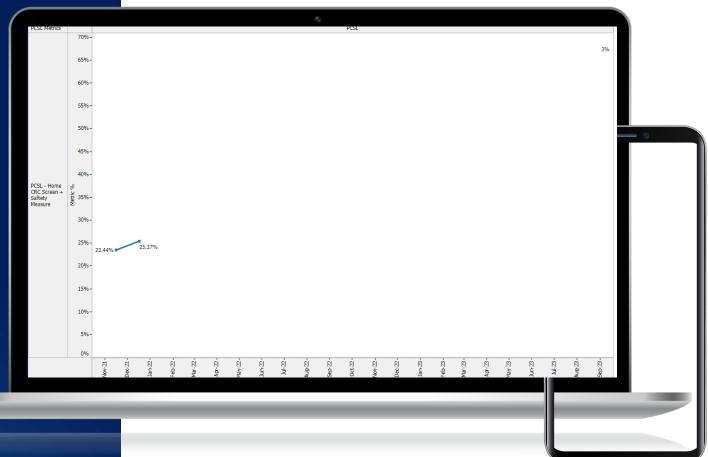
FIT Campaign ROI Considerations

- Costs include
 - Test Kits
 - Kit Instructions and packaging (marketing materials, apply PHI to kit and envelope)
 - Postage (to patients and back to lab)
 - Text program (monthly fee and per text)
 - Re-work for cancelled labs
 - Regional Medical Director TIME for bulk orders (20 minutes per region per outreach)
- Revenues can include lab and value based contract performance

Counter Measures

FIT + Results

- About 5% of population
- Results to the PCP within EPIC
- Standard expectations: colonoscopy within 6 months
- Initial outreach only had 25% achieve colonoscopy in 6 months



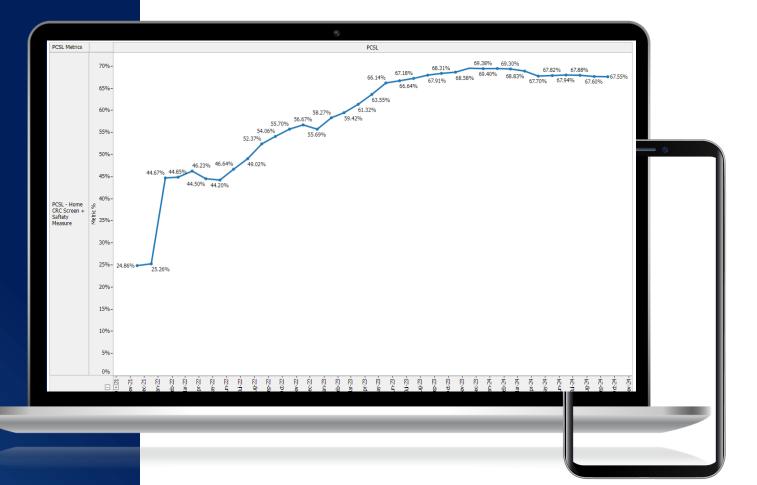
Facilitating Standard Process and Urgent Access

- Standardized workflow identifies + stool tests
- Outreach to patients by population health team monthly x3 to connect to expedited colonoscopy
- If not successful send letter encouraging follow up
- Created new referral order to capture volume of high priority colonoscopy referrals in collaboration with GI

DLONOSCOPY	✓ <u>A</u> ccept	<u>× (</u>
Reference Links:	AGA "Colorectal Cancer Screening Surveillance" ASGE "Coumadin Guidelines"	
Requested Location:		
Please indicate whether	the patient has any of the following clinical conditions that warrant priority scheduling:	
	Abnormal abdominal imaging causing suspicion of colorectal cancer	
	Palpable rectal mass suspicious for colorectal cancer	
	🗌 Stool test positive (fecal immunochemical test (FIT), fecal occult blood (FOBT), Muli-targeted stool DNA (Cologuard))	
	🗌 Clinically significant rectal bleeding 📋 Clinically significant iron deficiency anemia (should receive EGD and colonosco	py)
	Procedure needed prior to cancer treatment	
Patient Requires 2-Day/	Extended Prep Yes No	
Last Resulted:	Patient enrolled in the following Research Studies Study CodeResearch Study 850287 910095207-GAME Adherence	
Status:	Normal Standing Future	
Class:	Internal referral Order Normal Internal referral External referral Back Office Historical Order	
Priority:	Routine 🔎 Routine	
Quantity:	1 The maximum orderable quantity for this procedure is 100	
Comments:		
	Estimated body mass index is 23.33 kg/m² as calculated from the following: Height as of 4/9/24: 6' (1.829 m). Weight as of 4/9/24: 172 lb (78 kg).	
	Patient Preferred Language: English	
Scheduling Instructions:		
CC Results:	➡ My List 🔻 ➡ Care Team 💌 ➡ Other	
	Enter recipients	
Performing Department:	Q	
Modifiers:	Q	
Next Required	✓ <u>A</u> ccept	<u>× (</u>

Post Intervention

 Interventions led to an improvement from 25→ 68% completion of colonoscopy within 6 months, which has been maintained over the last 12 months



In Conclusion

Centralized screening outreach program





- Bulk ordering to
 average risk patients
- Mailed FIT
- Vendor for letters and user friendly packaging
- Pre-mailing text messaging
- Text message navigation
- Reminder messages

- Navigation as needed for those who need it
- Navigation for positive patients

There is a need for a proactive, technology-enabled, and centralized approach to make meaningful and sustained increases in cancer screening rates (goal 80%)

Thank you!

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