Turning the Tides

Leveraging DRVS to Improve Colorectal Cancer Screening Rates

PRESENTED BY:

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Population Health Data Analyst Association for Utah Community Health (AUCH)

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Director of Quality
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azara2024
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Today's Presenters





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Agenda





PARTNERSHIPS

Provider Reminder

Patient Reminder

Provider Assessment
and Feedback

EVIDENCE-BASED INTERVENTIONS



AZARA TOOLS



APO PERFORMANCE REPORT

Partnership



Association for Utah Community Health (AUCH)





Network Health Centers and Clinics



Biomedical Informatics



12 Centers/42 clinics

Evidence-Based Interventions



Provider Reminder



Provider Assessment and Feedback



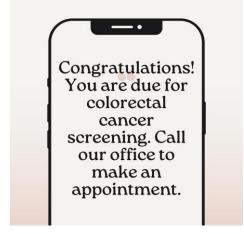








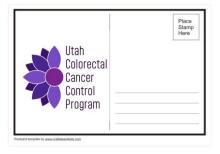
Client/Patient Reminder



Patient Navigation

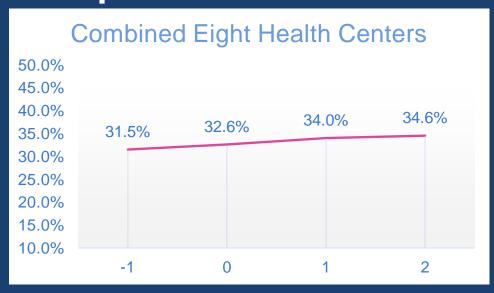


Small Media

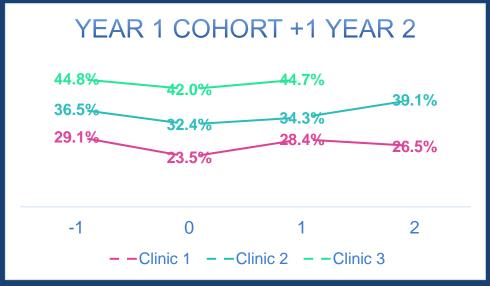


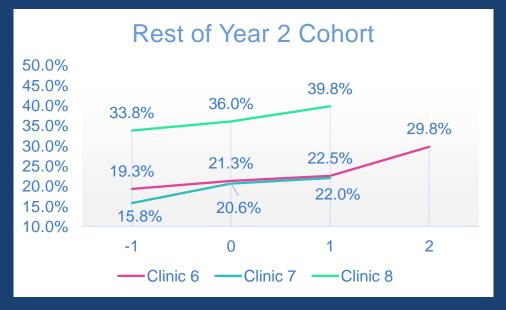
Unpublished CRC Screening Rates











Screening for colorectal cancer

DRVS tools to support evidencebased interventions



Provider Reminder: PVP Alerts

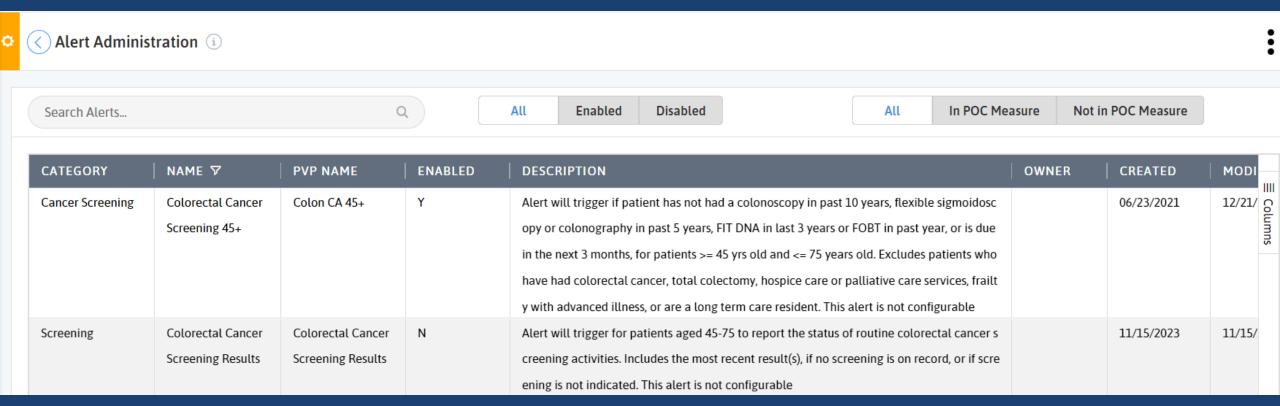




ALERT	MESSAGE	DATE	RESULT		OWNER
Colon CA 45+	Missing				MA/Clin
Mammo	Missing				Clinician
Pap HPV	Missing				MA
Alc	Out of Range	The state of	The state of the s	The state of	MA
Нер С	Missing			- The same	Clinician
HIV	Missing	400	A CONTRACTOR	1 1	Clinician
Alcohol Screening	Overdue		304323		MA
PHQ-2 Annual	Overdue		21 21 21		MA
SDOH Needs Assessed	Missing	20	The second	1000	
Flu - Seasonal	Missing	45		6445	MA
Shingrix Series Incomplete	Missing		2 (100 - 2)		MA/Clin
Tetanus	Due 1	San San	罗 中 中 中 多	4 3 3 3	MA
Foot Exam	Overdue	TO	21 2	130	MA/Clin

Provider Reminder: PVP Alerts





Provider Reminder: PVP Alerts



Colorectal Cancer Screening 45+

Alert will trigger if patient has not had a colonoscopy in past 10 years, flexible sigmoidoscopy or colonography in past 5 years, FIT DNA in last 3 years or FOBT in past year, or is due in the next 3 months, for patients >= 45 yrs old and <= 75 years old. Excludes patients who have had colorectal cancer, total colectomy, hospice care or palliative care services, frailty with advanced illness, or are a long-term care resident. This alert is not configurable.

Colorectal Cancer Screening Results

Alert will trigger for patients aged 45-75 to report the status of routine colorectal cancer screening activities. Includes the most recent result(s), if no screening is on record, or if screening is not indicated. This alert is not configurable.





Use to promote CRC Screening

Use to see last CRC screen

Provider Assessment & Feedback: Measure Targets



Network target configuration screen



Edit	×
MEASURE	
Colorectal Cancer Screening (CMS 130v11)	
NAME	CENTER NAME
AUCH focus measure goal	All Centers
PRIMARY TARGET(%)	SECONDARY TARGET(%)
45	32.6
	The secondary target must be lower than or equal to the
DESCRIPTION	primary target
Primary: the Apr 2023 screening rate for the second-ranked health center.	^
	~
Secondary: the Apr 2023 screening rate for the ninth-ranked health center	fi.
SET AS DEFAULT TARGET	
This will override the current default target	
Cancel	Confirm
	ĸ,

Provider Assessment & Feedback: Measure Targets



Comparison: center and network targets and performance TY Feb 2024

key: P = primary, S = secondary, R = result, N = not met, N/A = not applicable

Fake center ID	Р	S	R	Comment	Center target progress	Network target progress	Center P compared to network P	Center S compared to network S
0 (network)	45.0%	32.6%	34.5%	Network targets and overall PHC performance	N/A S		N/A	N/A
1	45.0%	32.6%	37.6%	No center target set	N/A	S	N/A	N/A
2	30.0%	24.0%	24.0%	Exactly at center S	S	N	Easier	Easier
3	43.0%	31.0%	36.3%		S	S	Easier	Easier
4	36.0%		37.0%	One point over center P	Р	S	Easier	N/A
5	42.0%		41.4%	0.6 points away from center P	N	S	Easier	N/A
6	66.0%		38.2%	Ambitious target (value-based care goal)	N	s	Tougher	N/A
7	30.0%	20.0%	29.6%	0.4 points away from center P	S	N	Easier	Easier
8	32.0%	20.0%	28.0%		S	N	Easier	Easier
9	25.0%	20.0%	25.5%	0.5 points over center P	Р	N	Easier	Easier

Provider Assessment & Feedback: Measure Comparison

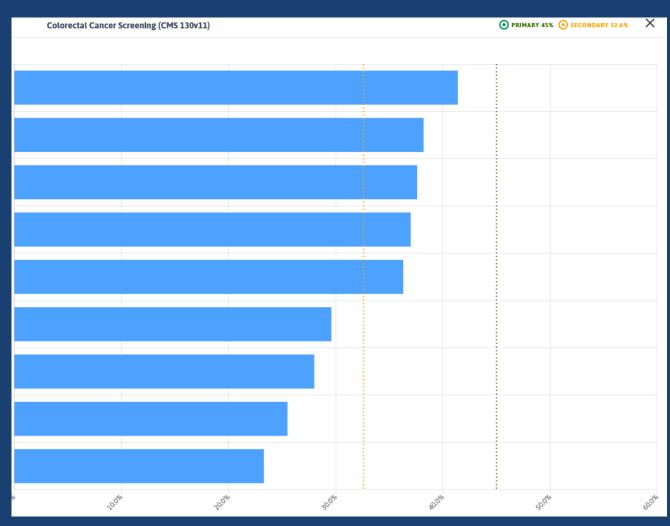


UDS CRC screening measure performance

Each bar represents one of the nine participating health centers

TY Feb 2024

Network targets shown



Provider Assessment & Feedback: Measure Trends

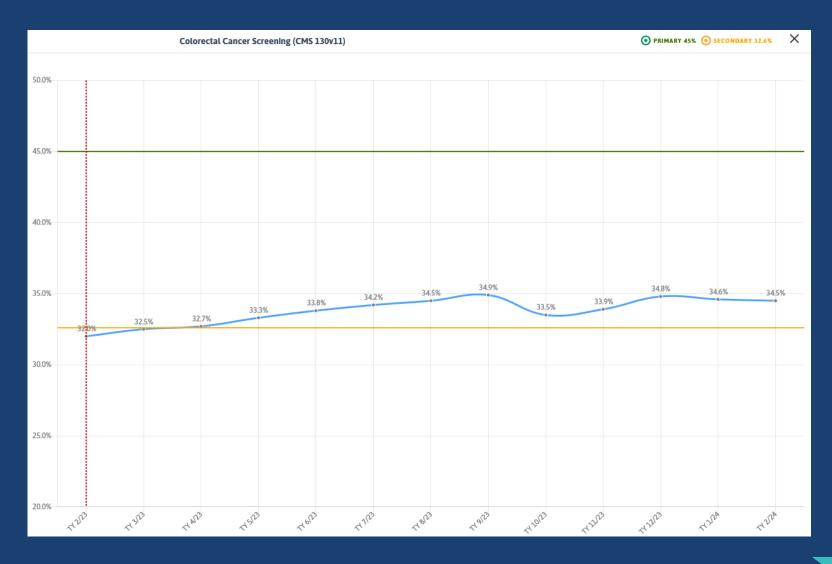


UDS CRC screening measure performance

Combined screening rate for nine participating health centers

TY Feb 2024

Network targets shown



Provider Assessment & Feedback:



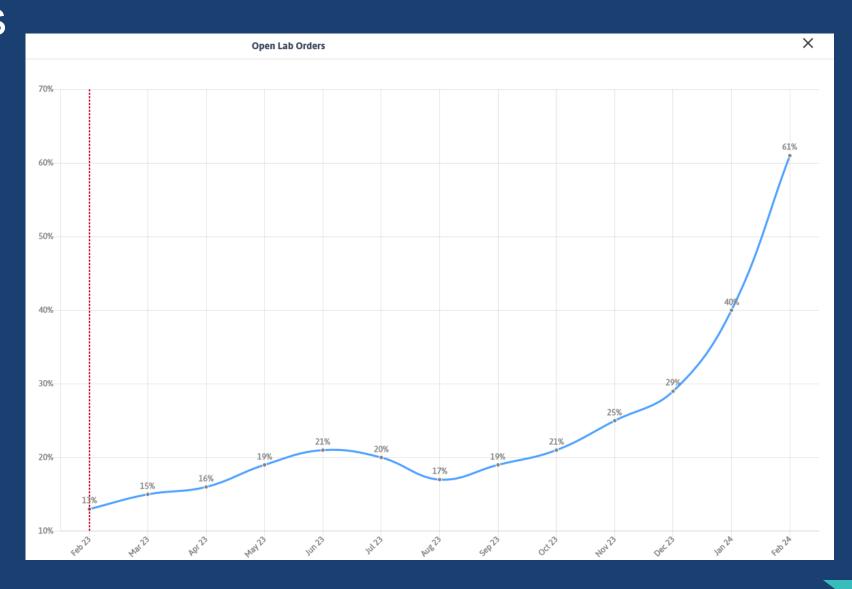
Measure Trends

Open lab orders

Combined open order rate for eight of the nine participating health centers (one center's lab orders are not linked to EHR CPT codes)

Month Feb 2024 (run on 2/22/24)

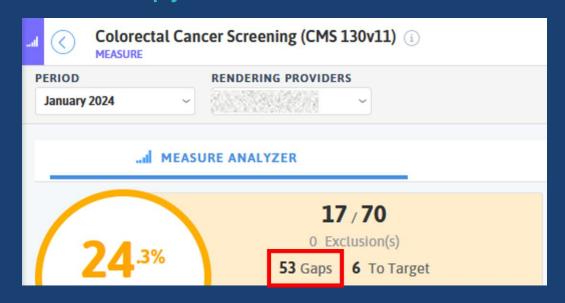
Measure filtered to FIT DNA and FOBT/FIT

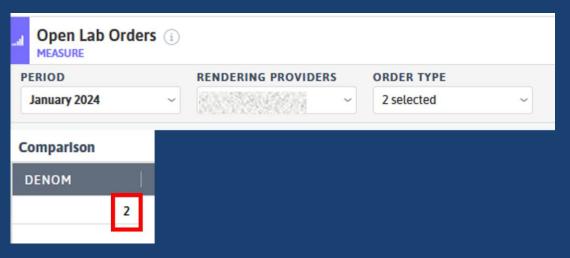


Provider Assessment & Feedback: Finding Missed Opportunities



Compare screening gaps to number of FIT/FIT-DNA tests ordered or colonoscopy referrals made.





d	Open Referrals (i) MEASURE			
P	ERIOD	RENDERING PROVIDERS	REFERRAL TYPE	
	January 2024 ~	*	3 selected	~ 🗷

Comparison									
REFERRAL TYPE	≡	DENOM							
Colonoscopy, screening			3						





Colonoscopy referral with appointment

ENTRY CRITERIA

This is how we detect if a patient should ENTER the campaign:

Patients who had a visit within the last 12 month(s), who have an upcoming primary care appointment in the next 14 day(s), and have an open referral for a colonoscopy (both screening and Dx) within the last 12 month(s). The campaign uses the most recent colonoscopy referral.

EXIT CRITERIA

This is how we detect if a patient should EXIT the campaign:

Patients in the campaign who no longer meet the entry criteria, including generic criteria, appointment criteria, and referral criteria

Colonoscopy referral without appointment

ENTRY CRITERIA

This is how we detect if a patient should ENTER the campaign:

Patients who had a visit within the last 12 month(s), who do not have an upcoming primary care appointment in the next 14 day(s), and have an open referral for a colonoscopy (both screening and Dx) within the last 12 month(s). The campaign uses the most recent colonoscopy referral.

EXIT CRITERIA

This is how we detect if a patient should EXIT the campaign:

Patients in the campaign who no longer meet the entry criteria, including generic criteria, appointment criteria, and referral criteria





Colorectal Cancer Screening due reminder without appointment

ENTRY CRITERIA

This is how we detect if a patient should ENTER the campaign:

Patients aged [50y, 75y), who have had a primary care visit in the past 12 month(s), and have not had a colonoscopy in the last 10 year(s), and have not had a flexible sigmoidoscopy or ct colonograph in the last 5 year(s), and have not had a FIT-DNA in the last 3 year(s) or FIT/FOBT in the last 1 year(s), and have no appointment in the next 30 day(s)

EXIT CRITERIA

This is how we detect if a patient should EXIT the campaign:

Patients who no longer meet generic entry criteria, or have had a colonoscopy in the last 10 year(s), or have had a flexible sigmoidoscopy or ct colonograph in the last 5 year(s), or have had a FIT-DNA in the last 3 year(s) or FIT/FOBT in the last 1 year, or have an upcoming appointment in the next 30 day(s)

Reminder to discuss colorectal cancer screening at upcoming appointment

ENTRY CRITERIA

This is how we detect if a patient should ENTER the campaign:

Patients aged [50y, 75y), who have had a primary care visit in the past 12 month(s), and have not had a colonoscopy in the last 10 year(s), and have not had a flexible sigmoidoscopy or ct colonograph in the last 5 year(s), and have not had a FIT-DNA in the last 3 year(s) or FIT/FOBT in the last 1 year(s), and have an upcoming appointment in the next 30 day(s)

EXIT CRITERIA

This is how we detect if a patient should EXIT the campaign:

Patients who no longer meet generic entry criteria, or have had a colonoscopy in the last 10 year(s), or have had a flexible sigmoidoscopy or ct colonograph in the last 5 year(s), or have had a FIT-DNA in the last 3 year(s) or FIT/FOBT in the last 1 year, or no longer have an appointment in the next 30 day(s)





Open FIT order

ENTRY CRITERIA

This is how we detect if a patient should ENTER the campaign:

Patients aged [50y, 200y) and have had a primary care visit in the past 36 month(s) and have an open FIT order in the past 12 month(s)

EXIT CRITERIA

This is how we detect if a patient should EXIT the campaign:

Patients who no longer meet generic entry criteria, or no longer have an open FIT order in the past 12 month(s)

Client (Patient) Reminder APO Sample Texts



"Starter" text from Azara

Campaign: open FIT order

Three messages recommended. The third message allows patients to reply with one of four multiple-choice reasons

Open FIT order

- Message #1: Hi, this is <Center Name> reminding you to put your FIT kit in your bathroom as a reminder to complete the test as soon as you can. Text STOP to opt out.
 - Spanish Translation of above message:
- Message #2: Hi, this is <Center Name> reminding you to complete the FIT kit you got at your last visit. If you've already sent it – thank you! If not, please call with any questions ###-#######. Text STOP to opt out.
 - Spanish Translation of above message:
- Message #3: Hi, this is <Center Name> and we didn't get your FIT kit yet. Please tell us more: (A) No time, (B) I forgot, (C) Need a new kit, (D) Already returned. Thanks! Text STOP to opt out.
- · Spanish Translation of above message:
 - A: It's quick to complete and it may help to leave in your bathroom as a reminder. Call if you need more directions 718-466-8244. Text STOP to opt out.
 - Spanish Translation of above message:
 - B: It's easy to forget, but screening is important. Putting the kit in your bathroom where you can see it may help, or you can use our restrooms instead. Text STOP to opt out.
 - Spanish Translation of above message:
 - C: Please come in and grab a new kit. Text STOP to opt out.
 - Spanish Translation of above message:
 - o D: Great Thank you!
 - Spanish Translation of above message:

Client (Patient) Reminder APO Sample Texts



"Starter" texts from Azara

Campaigns: screening due reminder with and without appointment

One message for existing appointment. Three messages with patient reply option for no upcoming appointment

Reminder to discuss colorectal cancer screening at upcoming appointment

- Message #1: Hi, this is <Center Name> reminding you to discuss your colorectal cancer screening at your upcoming visit. We look forward to seeing you soon. Text STOP to opt out.
 - Spanish Translation of above message:

Colorectal Cancer Screening due reminder without appointment

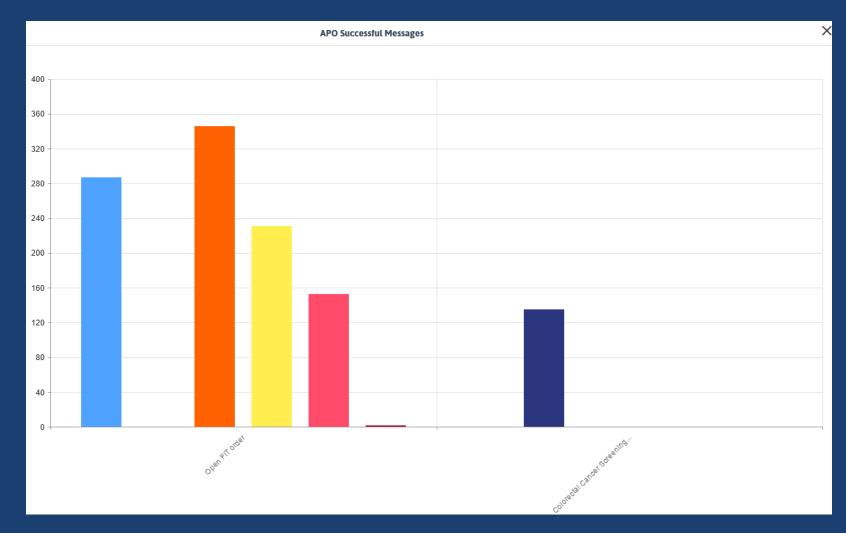
- Message #1: Hi, this is <Center Name>. You are due for your colorectal
 cancer screening. Please call us to schedule an appointment ### ####.
 Text STOP to opt out.
 - Spanish Translation of above message:
- Message #2: Hi, this is <Center Name>. You are due for your colorectal
 cancer screening. Please call us to schedule an appointment ### ####.
 Text STOP to opt out.
 - Spanish Translation of above message:
- Message #3: Hi, this is <Center Name>. We haven't heard from you
 regarding your colorectal cancer screening. Please tell us more (A) already
 called, (B) get my care elsewhere, (C) Can't come in. Text STOP to opt out.
 - Spanish Translation of above message:
 - A: Thank you for scheduling a visit with us. We look forward to seeing you soon. Text STOP to opt out.
 - Spanish Translation of above message:
 - B: We're happy to hear you are getting the appropriate care. If you let us know where, we can make a note in your record. Text STOP to opt out.
 - Spanish Translation of above message:
 - C: We understand and would like to help you address any challenges you're facing related to getting to the center. Please call us at ### #####. Text STOP to opt out.
 - Spanish Translation of above message:

Client (Patient) Reminder: Number of APO Texts sent



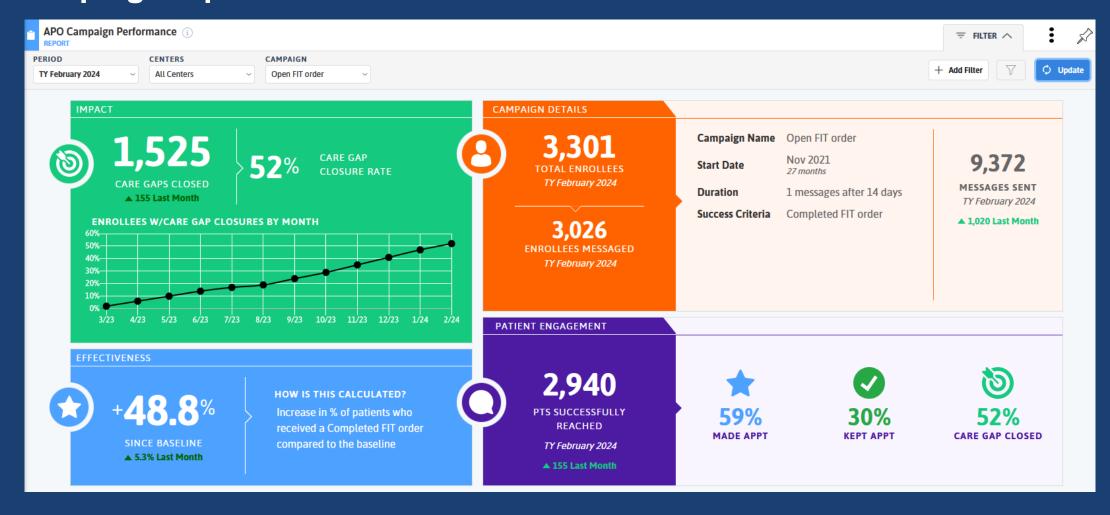
Month Jan 2024

Grouped by campaign by health center



Client (Patient) Reminder: APO Campaign Performance Campaign: open FIT order

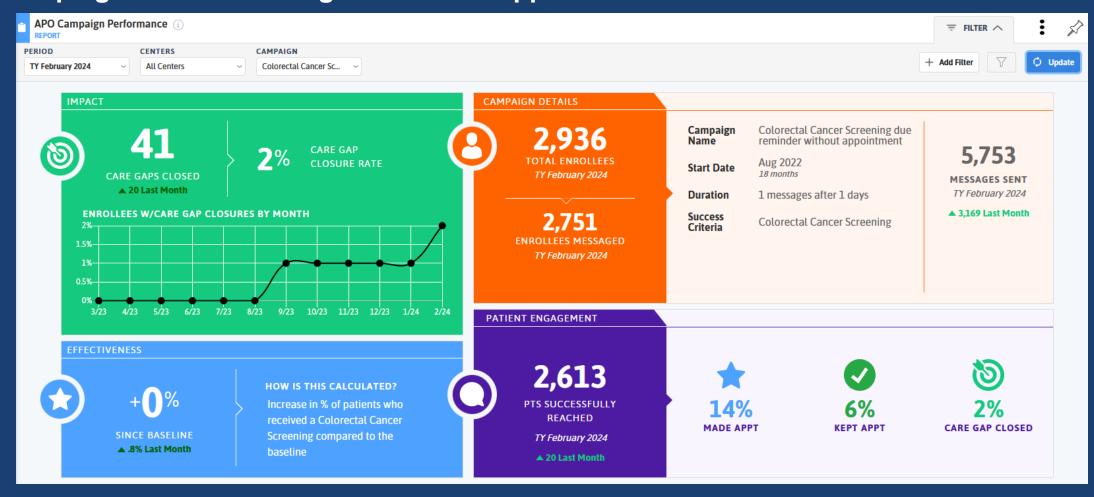




Client (Patient) Reminder: APO Campaign Performance



Campaign: CRC screening due without appointment



Conclusions: Before & After Results Narrative



Overall Results: Colorectal cancer screening rates increased by 30.8% over an average project duration of 25 months.

Key Considerations:



Baseline Measurement



Age Range 50-75



Final Measurement



Comparisons to nonparticipating centers



Lower baseline = greater improvement

Conclusion: Before & After Results Data Table

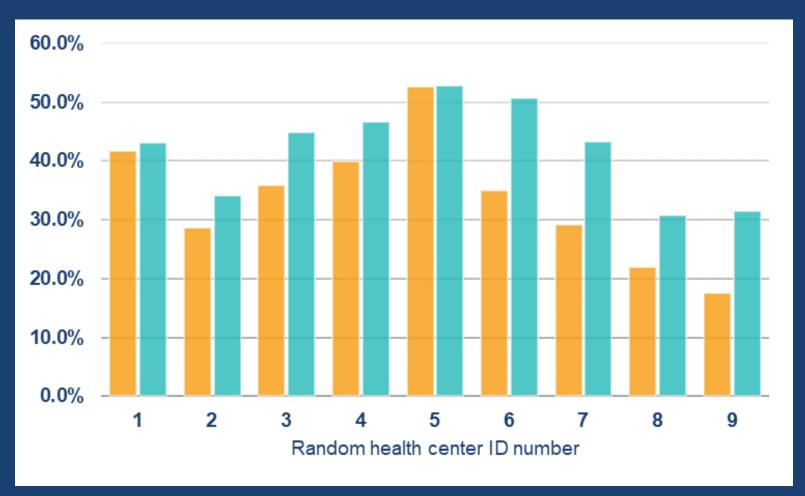


Percentage of patients age 50-75 appropriately screened for colorectal cancer before and after implementing the colorectal cancer control program

Random health center ID number	Baseline (before)	months counted	Final (after)	months counted	Points change	Percent change
0 (overall)	N/A	N/A	N/A	N/A	8.4%	30.8%
1	41.7%	31	43.1%	35	1.3%	3.2%
2	28.6%	14	34.1%	35	5.5%	19.4%
3	35.8%	59	44.9%	14	9.1%	25.3%
4	39.8%	50	46.5%	19	6.7%	16.9%
5	52.5%	50	52.8%	23	0.3%	0.6%
6	35.0%	3	50.7%	23	15.7%	44.7%
7	29.1%	38	43.3%	26	14.2%	48.8%
8	22.0%	44	30.7%	30	8.7%	39.7%
9	17.6%	50	31.5%	23	13.9%	79.1%

Conclusion: Before & After Results Chart





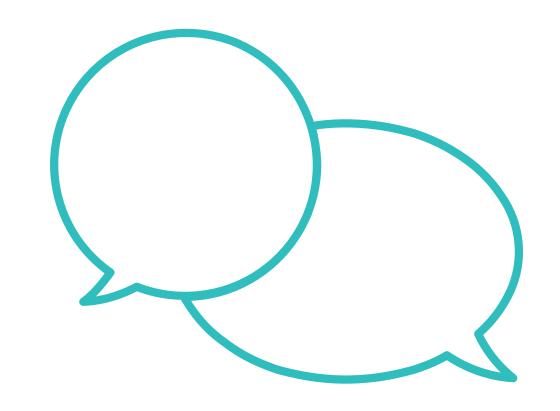
Percentage of patients age 50-75 appropriately screened for colorectal cancer before and after implementing the colorectal cancer control program

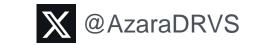
Orange/left = before (earliest screening rate data to program start)

Turquoise/right = after (program start to Jan 2024)

Questions?







Montana PCA: Mailed FIT Project



Montana Primary Care Association

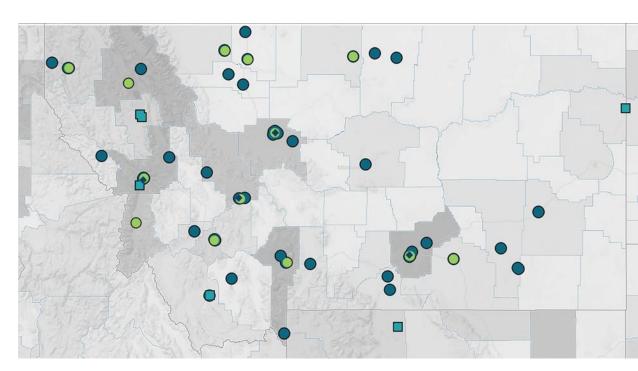


The Mission of the Montana Primary Care Association is to **promote integrated primary healthcare** to achieve health and well-being for Montana's most vulnerable populations.

The Vision of MPCA is health equity for all Montanans.

MPCA values integrity, collaborations, and innovation.

The Montana Primary Care Association is the support organization for Montana's 14 Community Health Centers and 5 Urban Indian Organizations. MPCA centers serve over 123,791 patients across Montana.



Montana Health Center Patients



123,791 unique patients

13.78% Uninsured | 32.06%

24.89% of patients under 100% of FPL | 40.76% of patients under 200% of FLP

38,108 patients aged 45-75 (eligible for Colorectal Cancer Screening)

Colorectal Cancer Screening Rate: 42.1%

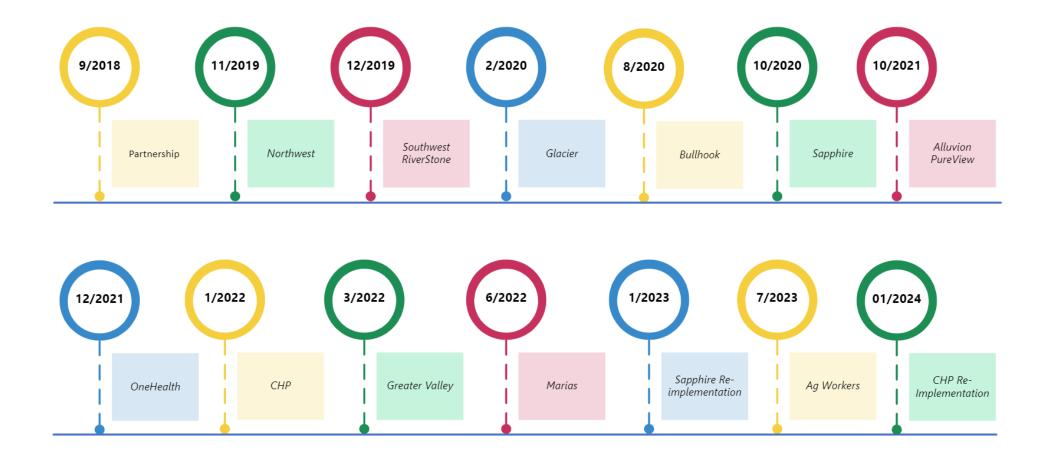
COVID 19 and Colorectal Cancer Screening



Clinical Quality Measure	2019	2020 (v 2019)	2021 (v 2020)	2022 (v 2021)
Cervical Cancer Screening	53.82	50.41	50.51	48.34
Breast Cancer Screening		46.69	44.38	47.92
Colorectal Cancer Screening	46.06	44.12	1 45.8	1 46.96
Screening for Depression	67.64	62.36	1 63.5	63.88
Controlling High Blood Pressure	64.59	57.39	60.44	62.53
Diabetes Management	25.94	29.96	27.09	26.14

Montana Azara DRVS Implementation





MPCA DRVS Implementation Overview

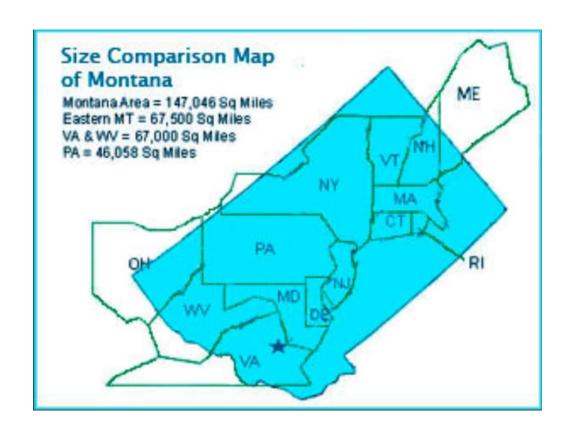


Center	Core DRVS	SE	ЮН	ı	Controlled Substance	R	sk	тос			yer ration	APO	Dental
Alluvion	10/2021							X			~	X	
Bullhook	08/2020				X			X			ed	X	
Community Health Partners	01/2022+01/2024							X	\leq	\leq	ica S		
Glacier	02/2020				X			X	ın	=	9		
Greater Valley	03/2022				X			X	# # # # # # # # # # # # # # # # # # #	و		X	
Marias	06/2022				X				⊒.	ā	SS	X	
Migrant	07/2023				X				工	\leq	3		
Northwest	11/2019				X			X	8	7	3		
One Health	12/2021				X			X	#	5	st a		
Partnership	09/2018				X			X	0	<u>a</u>	e ma		
PureView	10/2021				X			X	Ö	_			
Riverstone	10/2019				X			X	p		iliz		X
Sapphire	10/2020+01/2023				X			X			atio		
Southwest	12/2019				X			X			ă		X

Unique Geography, Unique Challenges 4 2024



Montana's unique geography and population creates unique challenges, including access to healthcare services.



4th largest state in the nation

Population: 1,052,343 people **2,160,000** cattle (2023)

45 of 56 Montana counties are designated frontier

By 2030, Montana will be one of ten states in the country to have more people over the age of 65 than under

The Solution: Mailed FIT Campaigns 42024



Evidence based strategy to increase colorectal cancer screening

Overcomes limitations of opportunistic screening and can be conducted in coordination with in-clinic screening efforts

Reduces time and transportation barriers

Less invasive than other screening methods



2021 Mailed FIT Project (without APO)





Successes

- Return rates varied between 11%-27%
- Positive reception from clinic staff and patients



Opportunities

- Centers that performed outreach beyond mailed letters had better return rates.
- Postal Service Challenges
- FIT kit challenges

Integrating Mailed FIT and APO





Desire for APO to increase return rates while reducing staff workload



Opportunity to align Montana DPHHS Cancer Contract with HCCN Grant Activities

Objective 1: Patient Engagement

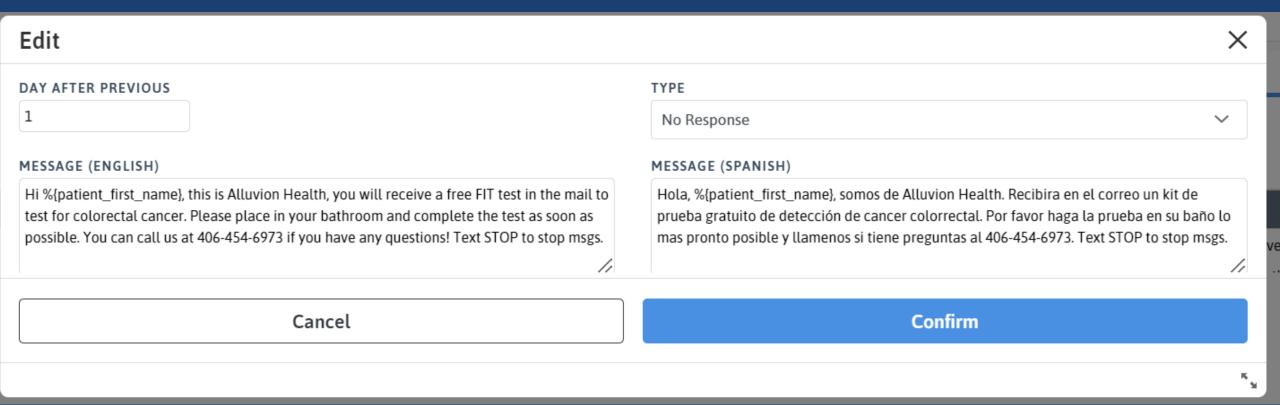
Using Digital Tools to Engage Patients and their Families AND Improve Staff Capacity

Objective 10: Improving Digital Health Tools

Activity 2: Improve Cancer Screening in Montana's Most Vulnerable

APO Set Up





APO Set Up

Ö

Open FIT order

VARIABLES MESSAGE SCHEDULE

MESSAGE SCHEDULE

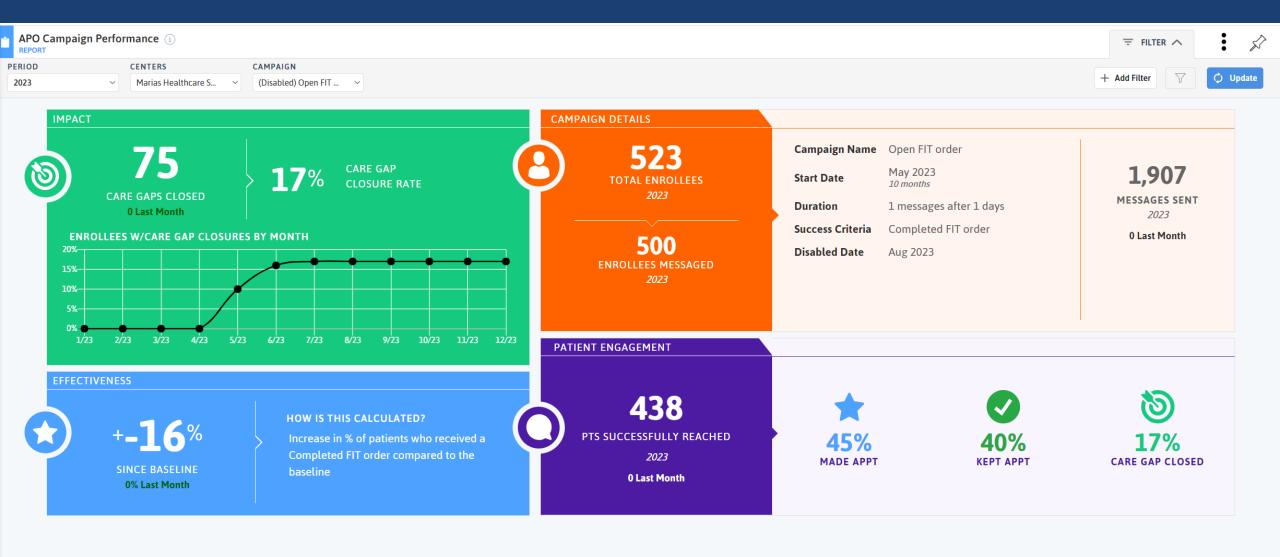


These are the messages that will go out to the patient, they will sort automatically based on day. Each campaign has a minimum of 1 message and maximum of 3 messages.

MESSAGE #	DAY	MESSAGE		l
1	1	Hi %{patient_first_name}, this is Bullhook Community Health Center, you will receive a FREE FIT test in the mail to test for colorectal	0	Col
		cancer. Please place in your bathroom and complete the test as soon as possible. If you have any questions, please call 406-395-430		nmns
		5. Text STOP to stop msgs.		
2	15	Hi %{patient_first_name}, this is Bullhook Community Health Center reminding you to complete your free colon cancer screening ki	0	
		t. If you've already sent it-thank you! If not, please call with any questions 406-395-4305. Text STOP to stop msgs.		
3	22	Hi %{patient_first_name}, this is Bullhook Community Health Center, we didn't get your colon cancer screening kit yet. Can you help	0	
		us understand why? (A) No time, (B) I forgot, (C) Need a new kit, (D) Already returned. Thanks! Text STOP to stop msgs.		

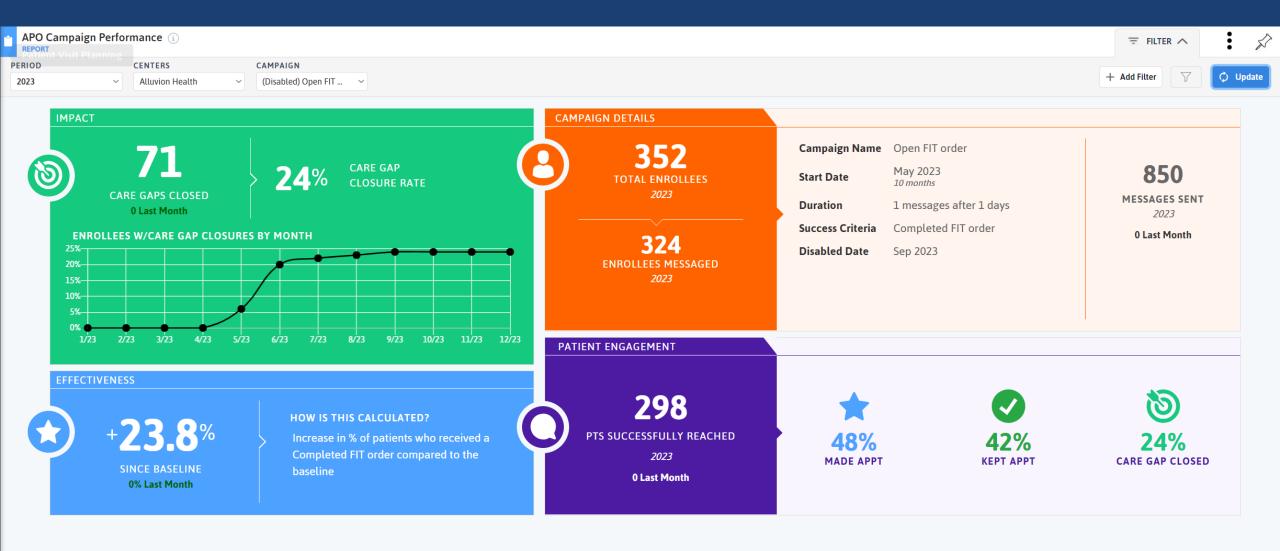
Results | Marias





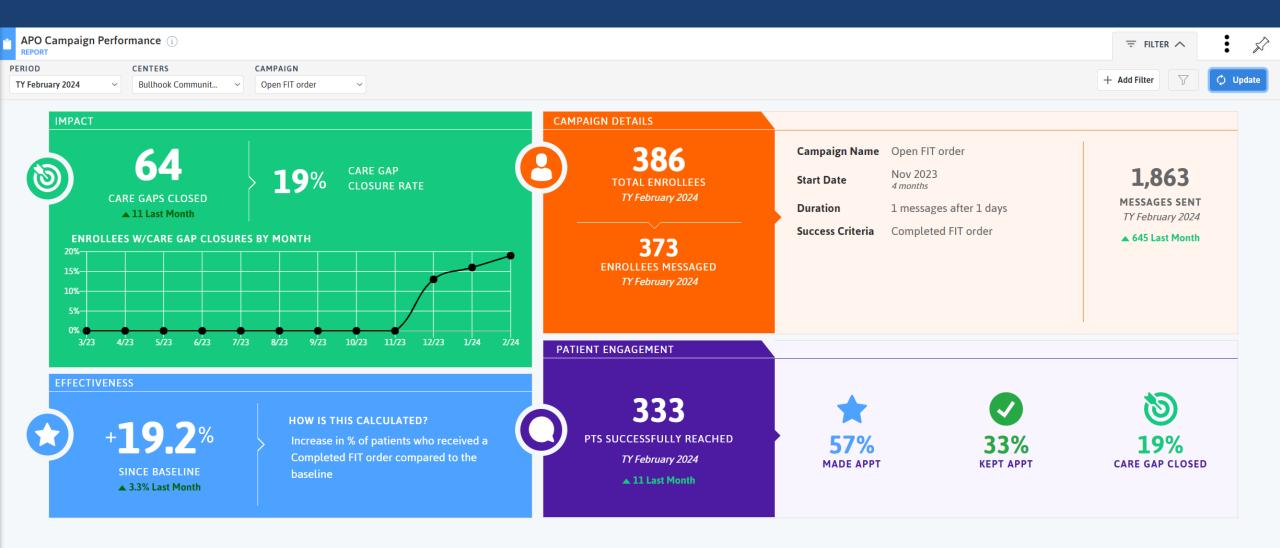
Results | Alluvion





Results | Bullhook





Lessons Learned



- 1 US Postal Service Challenges
- 2 FIT Kit Shortage and Ordering
- 3 Data Cleanup might not increase return rates as much as expected
- Emphasis to patients that tests are free and they/ their insurance will not be charged
- 5 Patients can and will opt out

References



Cancino, R.S., et al. The of COVID-19 on Cancer Screening: Challenges and Opportunities.JMIR Cancer, 2020. 6(2): p. e21697

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Gupta, S., et al. Mailed fecal immunochemical test outreach for colorectal cancer screening: Summary of a Centers for Disease Control and Prevention-sponsored Summit. CA: a cancer journal for clinicians. 2020. 70(4), 283–298. https://doi.org/10.3322/caac.21615

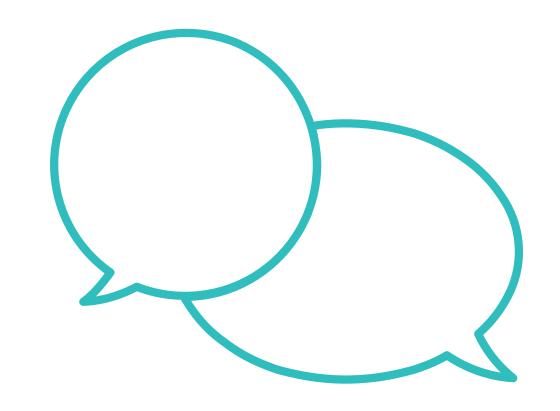
Inadomi, J.M., et al. Adherence to colorectal cancer screening: a randomized clinical trial of competing strategies. Archives of Internal Medicine, 2012. 172(7): p. 575-82.

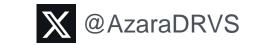
Jager, M., et al. Mailed Outreach Is Superior to Usual Care Alone for Colorectal Cancer Screening in the USA: A Systematic Review and Meta-analysis. Dig Dis Sci., 2019. 64(9): p. 2489-2496. doi:10.1007/s10620-019-05587-6. Epub 2019 Mar 26.

National Association of Chronic Disease Directors., Kaiser Permante., Centers for Disease Control and Prevention. Mailed FIT Implementation Guide. 2022. https://chronicdisease.org/wp-content/uploads/2023/01/60851-Mailed-FIT-Guide-v50.pdf

Questions?







Achieve, Celebrate, Engage!

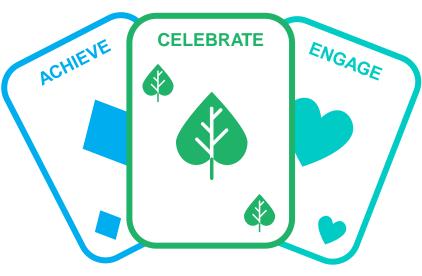
ACE'd it? Share your DRVS success story and become an Azara ACE!

Show your organization has used DRVS to Achieve measurable results, Celebrate improvement in patient health outcomes, and effectively Engage care teams and/or patients. Stories should showcase how DRVS helped your organization overcome a challenge, the tools and solutions used to drive improvement and details of the successes that resulted from your initiatives. ACEs should be able to provide examples that quantify quality improvement, cost savings, operational efficiency or patient health improvement.

Benefits:

- Azara will help tell your story and provide a client-branded version for your use
- Potential to create a 2-4 minute video or hour-long Azara-hosted webinar
- Win Azara swag!





Submit your success story by completing the form at this link or scan our QR code:

See this year's ACE posters in the Ballroom Foyer!

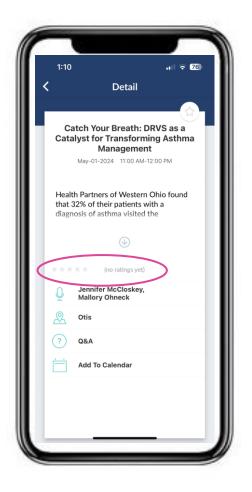


We Want to Hear From You!

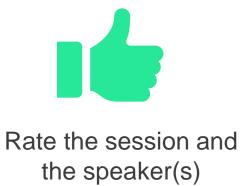


Click on the session from your agenda in the conference app.

Click the stars in the center of your screen to rate and provide feedback.













Thanks for attending!

