



In partnership with:



















## Disclaimer for sharing or use of any of this presentation

If you share or use this presentation, any parts of it, or any of the info in it is used, please ensure you always credit the Ohio Cardiovascular Health Collaborative (Cardi-OH) AND you provide a link to <a href="https://www.cardi-oh.org">www.cardi-oh.org</a>

Please also send the link to where it is being used to Cardi-OH using the contact email: <a href="mailto:info@cardi-oh.org">info@cardi-oh.org</a>

# 12-Month evaluation of an EHR supported staff role change for provision of tobacco cessation care in 8 primary care safety-net clinics

Susan Flocke, PhD, Eileen Seeholzer, MD, MS, Steven Lewis, MS, MBA, India Gill, MPH, Elvira Ordillas, RN, Jeanmarie Rose, MPA, Elizabeth Antognoli, PhD, Thomas Love, PhD, David Kaelber, MD, PhD

Eileen L. Seeholzer, M.D., MS
Associate Professor of Medicine
Medical Director, MetroHealth Weight Loss Surgery and Weight Management
Center and MetroHealthy Employee Wellness Program

Dept. of Medicine and Center for Health Care Research and Policy
Case Western University School of Medicine at the
MetroHealth System - Cleveland, Ohio
eseeholzer@metrohealth.org

May 17, 2019

## Disclosures

The authors have no conflicts of interest to disclose including presenter Eileen Seeholzer, MD, MS.

#### Funding source:

This study was supported by a contract from PCORI IHS-1503-29879. The findings and conclusions in this presentation are those of the author and do not necessarily represent the official position of the Patient Centered Outcomes Research Institute.



## Context & Considerations:

- Cleveland smoking rates are much higher than Cuyhoga County (19% vs. 35%). Smoking is strongly associated with lower income and educational attainment
- ► For this Collaboration, Case Western Reserve University Researchers partnered with MetroHealth System, which is the large safety-net provider for the county

#### This project:

- Used a Whole system & team approach that
  - could be replicated in other systems, regions and states;
  - was sustainable and not dependent on the research project testing the implementation;
  - fit the needs of the organization and the patient population
  - Evidence Based Intervention Strategies
    - Quitline
    - eReferral
    - Ask-Advise-Connect

## This study aimed to:

Improve the delivery of smoking cessation brief advice and assistance to socially and economically disadvantaged patients using an Ask-Advise-Connect approach that is embedded in practice.

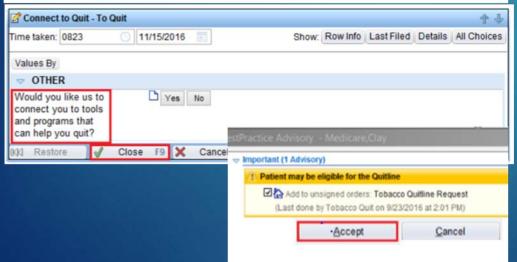
## Study Design

- Sites: 8 community-based primary care clinics
- Design: Stepped wedge roll out of intervention
- ► Time frame: data collection 3 months pre and 12 months post implementation
- Key outcomes:
  - Process variables: tobacco assessment and assistance
  - Contact rate by the quitline
  - # counseling sessions by the quitline

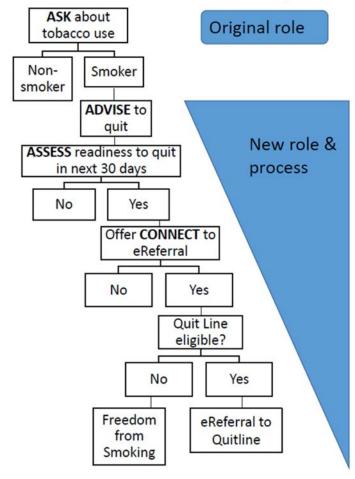
## Implementation

- Training 20 minute presentation & 20 minute practice with new EHR fields and functionality.
- Tip sheet
- Audit/Feedback-every 2 mo.

#### 2. Changes to EMR



#### 3. Role and Process changes



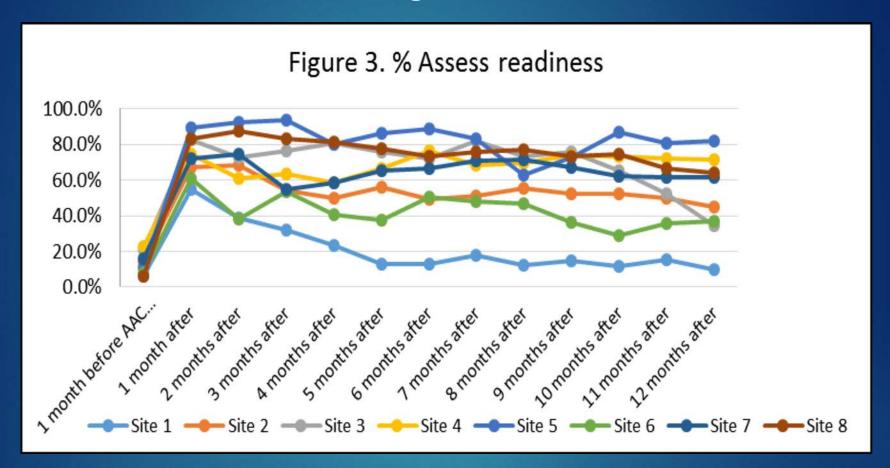
## Demographic table pre vs post time periods

		Overall 211,704 (100.0%)	Pre-AAC Implementation 72,320 (34.2%)	Post-AAC Implementation 139,384 (65.8%)
Description	Category	Total	N (%)	N (%)
Gender	Male	64,307 (30.4%)	22,127 (30.6%)	42,180 (30.3%)
	Female	147,396 (69.6%)	50,192 (69.4%)	97,204 (69.7%)
Age in years	18-34	52,717 (24.9%)	18,010 (24.9%)	34,707 (24.9%)
	35-64	121,416 (57.4%)	41,961 (58.0%)	79,455 (57.0%)
	65+	37,571 (17.7%)	12,349 (17.1%)	25,222 (18.1%)
Race	Caucasian	94,749 (49.9%)	31,478 (48.6%)	63,271 (50.5%)
	African American	88,390 (46.5%)	31,118 (48.0%)	57,272 (45.7%)
	Other	6,912 (3.6%)	2,221 (3.4%)	4,691 (3.7%)
Hispanic	Non-Hispanic	180,993 (87.7%)	61,742 (87.6%)	119,251 (87.8%)
	Hispanic	25,347 (12.3%)	8,716 (12.4%)	16,631 (12.2%)
Primary Insurance	Commercial	61,551 (29.9%)	20,533 (29.5%)	41,018 (30.1%)
	Medicaid	82,735 (40.1%)	28,757 (41.3%)	53,978 (39.6%)
	Medicare	49,285 (23.9%)	16,560 (23.8%)	32,725 (24.0%)
	Self-Pay	12,308 (6.0%)	3,745 (5.4%)	8,563 (6.3%)
	Other	249 (0.1%)	77 (0.1%)	172 (0.1%)
Smoking Status	Current Smoker	45,683 (26.1%)	15,941 (26.5%)	29,742 (25.9%)
	Former Smoker	48,701 (27.8%)	16,494 (27.5%)	32,207 (28.0%)
	Never Smoked	80,518 (46.0%)	27,598 (45.9%)	52,920 (46.0%)
	Not Assessed	109 (0.1%)	43 (0.1%)	66 (0.1%)

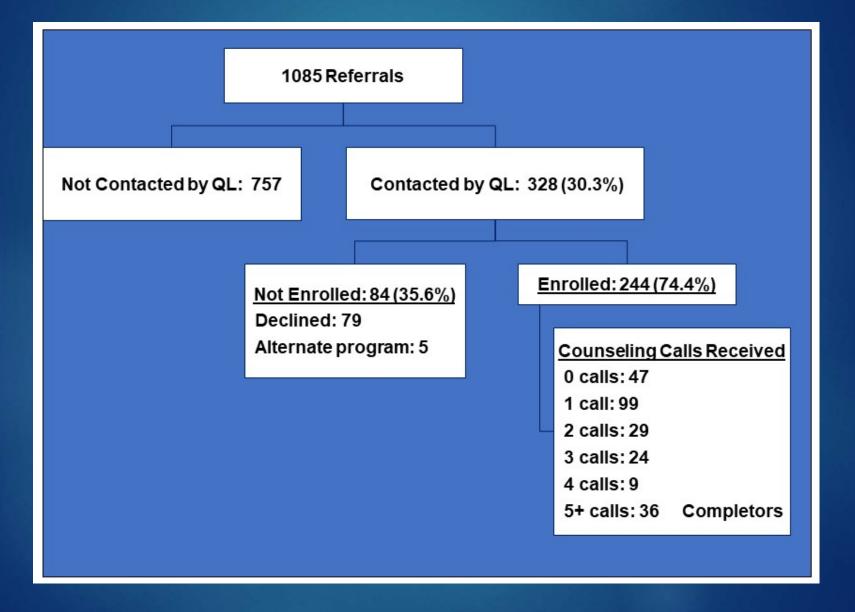
## eReferral study Ask Advise Connect Findings

						Time Points			
Indicator	1-3 Months Before AAC		1 Month After AAC		3 Months After AAC				
	N	%	OR (95% CI)	Ν	%	OR (95% CI)	Ν	%	OR (95% CI)
% Ask	12,587	49%		4,068	69%	2.23 (2.1, 2.5)	4,331	70%	2.49 (2.31,2.68)
% Advised	2,116	16%		997	88%	38.2 (30.6,47.7)	1,062	85%	29.64 (24.17, 36.34)
% Assess Readiness	2,116	24%		997	87%	21.9 (17.7, 27.0)	1,062	82%	14.33 (11.91, 17.24)
% Accepted Referral	170	2%		380	53%	62.5 (19.6, 199.3)	298	35%	29.84 (9.30, 95.79)
The second secon									
						Time Points			
Indicator	1-3 Moi	nths Be	efore AAC	6 Mon	ths Aft	Time Points er AAC	12 Mo	nths A	lfter AAC
Indicator	<b>1-3 Mo</b>	nths Be	efore AAC OR (95% CI)	6 Mon	ths Aft		<b>12 Mo</b>	nths A	ofter AAC OR (95% CI)
Indicator % Ask						er AAC	N		OR (95% CI)
	N	%		N	%	er AAC OR (95% CI)	N 11,99	%	OR (95% CI)  7% 3.47 (3.32, 3.62)
% Ask	N 12,587	% 49%		N 3957	% 65%	er AAC OR (95% CI) 1.97 (1.8, 2.1)	11,99 2,1:	% 55.	OR (95% CI)  3.47 (3.32, 3.62)  9.64 (8.27, 11.24)

#### Ask Advise Connect Findings



## eReferral study



## Summary points

- This systems-based strategy resulted in substantial and sustained increase in:
  - documentation of smoking status and advice
  - connection to assistance for tobacco cessation
- Contact rate by quitline and enrollment is modest.
  - There is much to learn about individuals who say they are ready and want help, but are not able to be contacted.
  - Identifying effective and acceptable tobacco cessation support options for low income adults is a high priority.
- Systems change research requires substantial commitment to collaboration system quality improvement on the part of all team members

## Acknowledgements

#### Collaborators

Eileen Seeholzer, MD, MS Elizabeth Antognoli, PhD Tom Love, PhD David Kaelber, MD, PhD, MS, MPH India Gill, MPH Jeanmarie Rose, MPA Genevieve Birkby, MS, MPH Steven Lewis, MS, MBA

#### MetroHealth Staff

Jay Koren
Georgene Bosich
Elvira Ordillas
Michael Bauman
Nick Provenzale
Ed Larson
Debby Bernhardt
Lisa Koval
Heather Sedlacek
Tara Hagar
Maria Podmore
Versie Owens

National Jewish Health / Quitline Kelly Navine, Katie Carradine

Ohio Department of Health Amy Gorenflo Mandy Burkett

Patient representatives May Montanez Theresa Kirby

Consultant
Jennifer Vidrine, PhD

