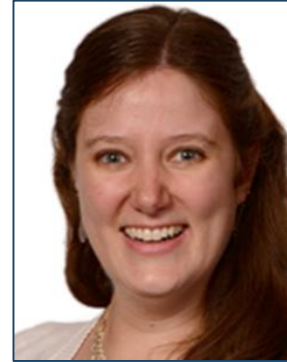


Tobacco Treatment



Stephanie Land, PhD



Brenna VanFrank, MD, MSPH



Graham Warren, MD, PhD



NATIONAL LUNG CANCER ROUNDTABLE

Smoking Cessation at Lung Examination (SCALE) Collaboration

Stephanie R. Land, PhD
National Cancer Institute

Smoking cessation at lung cancer screening: potential for benefit

- Low-dose computed tomography (LDCT) screening trials indicate 50-55% of those screened are smokers; up to 90% continue.
- For LDCT participants, quitting smoking is associated with reduced mortality.
- 2015 NCI Funding Opportunity: Smoking Cessation within the Context of Lung Cancer Screening (R01)
- Overarching research question: What are the key components and characteristics of a successful cessation program at LDCT?

Smoking Cessation at Lung Examination (SCALE) Collaboration

- 5 trials funded under RFA-CA-15-011 (September 2016)
 - 3 additional projects (2 NCI, one Veterans Affairs)
 - Share data and methods using common measures for cross-project research
 - NCI is serving as coordinating center and managing shared data
-
- Cinciripini (MD Anderson)
 - Foley/Chiles (Wake Forest)
 - Joseph (U Minnesota)
 - Ostroff/Shelley (Memorial Sloan Kettering)
 - Park/Rigotti/Haas (Partners/MassGenH)
 - Taylor (Georgetown)
 - Toll (Medical University South Carolina)
 - Zeliadt (Fred Hutchinson)

SCALE Progress

- Special Measures Collection: publicly available, curated items in demographics, tobacco use, medical history, psychological variables, implementation, medical outcomes, organizational characteristics
- Pooled data from 3,614 patients as of 9/2020
- Two trials have completed accrual
- 6 publications, 3+ manuscripts in preparation
- Anticipated primary reports in 2021

Discussion

- Goal is that SCALE will produce set of cessation packages and information about which are best for a given LDCT clinic.
- How do approaches compare with respect to intervention fidelity, patient reach, cost, ease of delivery?
- Uptake of lung cancer screening, and of LDCT participants in cessation, are barriers.
- There remains a need for other research related to cessation and LDCT.



Thank You





NATIONAL LUNG CANCER ROUNDTABLE

NCI CANCER CENTER CESSATION INITIATIVE (C3I)

Graham Warren M.D., Ph.D.

Mary Gilbreth Endowed Chair of Oncology

Vice Chairman for Research in Radiation Oncology

Hollings Cancer Center, Medical University of South Carolina

Smoking and Cancer Care

- 2014 Surgeon General's Report¹
 - Smoking by cancer patients and survivors causes adverse health outcomes
 - 50% increase in overall mortality
 - 60% increase in cancer related mortality
 - Increased risk for second primary cancer
 - Associations with cancer treatment toxicity
- 2020 Surgeon General's Report²
 - Smoking cessation after a cancer diagnosis is associated with improved survival
 - Smoking cessation improves outcomes for numerous other health conditions
- Cessation advocated as a standard of care by most cancer organizations, BUT³
 - While 80-90% of oncologists ask about tobacco and advise to quit
 - 30-40% of oncologists help patients quit
 - <50% of NCI designated cancer centers provided structured support (2009)
 - Predictive barriers to cessation include time, training, and resources

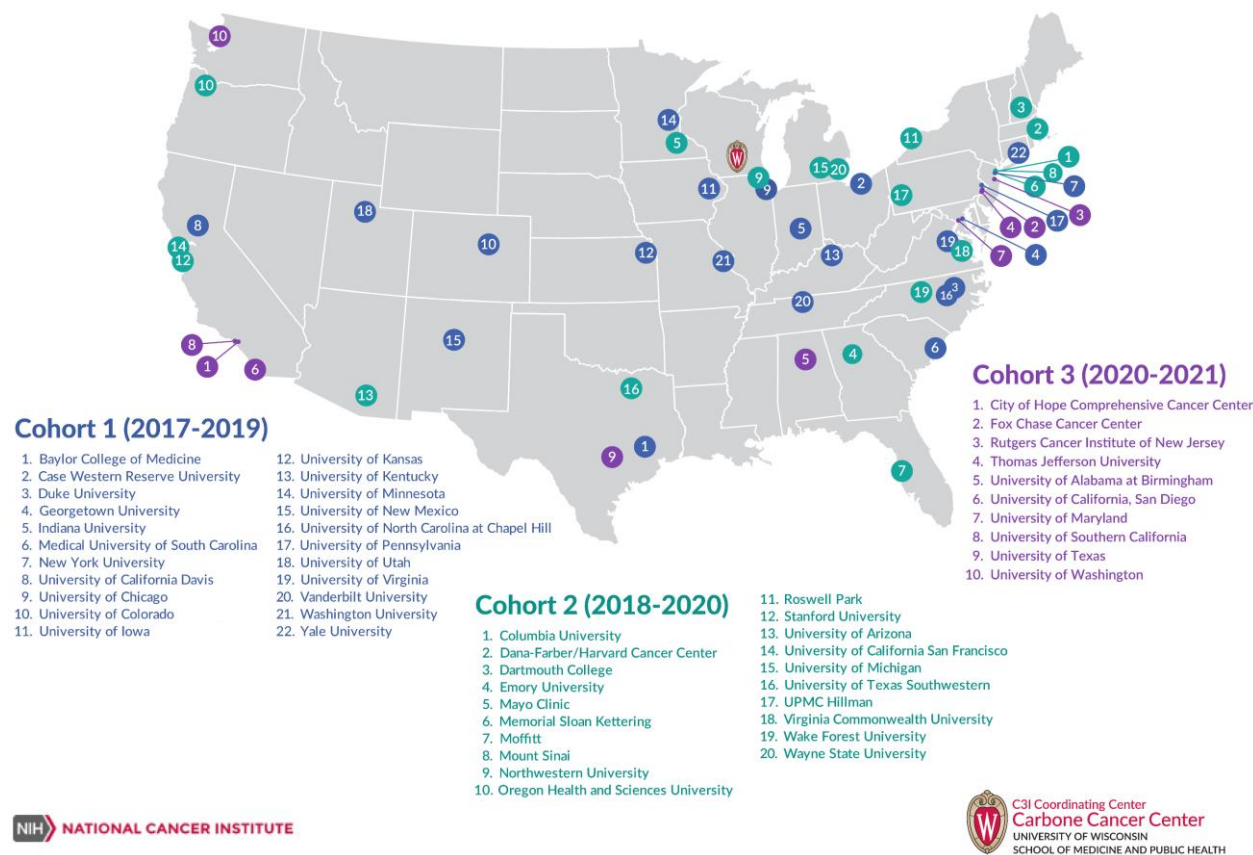
1. USHDDS. The Health Consequences of Smoking—50 Years of Progress: A Report of the Surgeon General. CDC OSH, 2014.

2. USDHHS. Smoking Cessation. A Report of the Surgeon General. CDC OSH, 2020.

3. Warren GW et al. J Thorac Oncol 2013, Warren GW et al. J Oncol Pract 2013, Warren et al. J Thorac Oncol 2015, Goldstein AO et al. NTR 2013

NCI Cancer Center Cessation Initiative (C3I)

- Funded in part by the NCI Cancer Moonshot Initiative
- Coordinating Center housed at the University of Wisconsin Carbone Cancer Center
- Objective: deliver evidence-based smoking cessation at cancer centers through 1) technical assistance for EHR and workflow, 2) collect reach and effectiveness data, and 3) hub for integration including best practices across funded centers and to assist in dissemination
- Three cohorts
 - Cohort 1: 2017-2019 (\$250K/yr x 2yr)
 - Cohort 2: 2018-2020 (\$250K/yr x 2yr)
 - Cohort 3: 2020-2021 (\$400K/yr x 1yr)



Croyle RH et al. NEJM 2019

C3I, RE-AIM, and Collaboration

- Goals:
 - Short-term: Enhance capacity of Cancer Centers to address tobacco cessation with cancer patients
 - Long-term: Build and implement sustainable tobacco cessation treatment programs within Cancer Centers
 - Longer-term: Influence the whole oncology clinical community, including community oncology clinics
- Program design and implementation is institution specific and should build on resources
 - Accurately identify tobacco use
 - Provide evidence-based care for all appropriate cancer patients
 - Develop a sustainability plan for 3 years beyond the initial 2-year period of support
- Networking through online webinars, shared resources and in person meetings twice per year



Effects of C3I on Program Implementation

- Metrics:
 - Healthcare system support
 - Workflow and EHR changes
 - TTP development and implementation

Cancer Center Cessation Initiative Implementation Task Status (Jan 1, 2019 to June 30, 2019)

C3I Cohort 1 Cancer Center	Healthcare System Support			Workflow and EHR Changes							TTP Development and Implementation				
	Secure health care system administrative leadership buy-in and support.	Secure health care system clinical leadership buy-in and support.	Secure health care system IT leadership buy-in and support.	Define the new clinical workflow for screening and referring smokers to treatment.	Work with IT to modify the EHR to screen and identify current smokers for treatment.	Work with IT to refer current smokers to treatment.	Train clinicians and staff in the new clinical workflow.	Pilot the new clinical workflow.	Implement the new clinical workflow ("Go live").	Develop an evidence based TTP.	Acquire space for the TTP.	Hire staff for the TTP.	Train clinicians and staff to implement the TTP.	Pilot the TTP.	Implement the TTP ("Go live").
1	Completed	Completed	Completed	In progress	Completed	Completed	In progress	Completed	Completed	Completed	In progress	In progress	Completed	Completed	In progress
2	Completed	Completed	In progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
3	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
4	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
5	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
6	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	NA	Completed	Completed	Completed	Completed
7	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
8	Completed	Completed	In progress	Completed	Completed	Completed	Completed	Completed	Completed	In progress	NA	Completed	Completed	Completed	Completed
9	Completed	Completed	Completed	Completed	In progress	In progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
10	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
11	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In progress
12	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In progress	Completed	In progress	Completed	Completed	Completed	Completed	In progress
13	Completed	In progress	NA	Completed	NA	NA	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
14	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed
15	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	NA	NA	Completed	Completed	Completed
16	In progress	In progress	In progress	Completed	Completed	Completed	In progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
17	Completed	Completed	In progress	In progress	In progress	In progress	In progress	In progress	Completed	Completed	In progress	Completed	In progress	In progress	In progress
18	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
19	Completed	Completed	Completed	Completed	Completed	NA	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
20	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
21	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	NA	Completed	Completed	Completed	Completed
22	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed

Notes: Data were collected in 2019 for the reporting period of Jan 1, 2019 to June 30, 2019.

Respondents were asked to report on the status of 15 implementation tasks. They could choose whether the task was: complete, in progress, not yet started, or not applicable to their site.

Each row represents the responses for each of the 22 Cancer Centers in Cohort 1, for each of the 15 tasks.

The list of Cancer Centers is sorted by the total number of tasks completed, so that Centers with a greater number of completed tasks are listed at the top.

Cancer Center Cessation Initiative Implementation Task Status (Jan 1, 2020 to June 30, 2020)

C3I Cohort 2 Cancer Center	Healthcare System Support			Workflow and EHR Changes							TTP Development and Implementation				
	Secure health care system administrative leadership buy-in and support.	Secure health care system clinical leadership buy-in and support.	Secure health care system IT leadership buy-in and support.	Define the new clinical workflow for screening and referring smokers to treatment.	Work with IT to modify the EHR to screen and identify current smokers for treatment.	Work with IT to refer current smokers to treatment.	Train clinicians and staff in the new clinical workflow.	Pilot the new clinical workflow.	Implement the new clinical workflow ("Go live").	Develop an evidence based TTP.	Acquire space for the TTP.	Hire staff for the TTP.	Train clinicians and staff to implement the TTP.	Pilot the TTP.	Implement the TTP ("Go live").
1	Maintenance	Maintenance	Completed	Maintenance	In progress	In progress	Maintenance	NA	NA	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
2	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	In progress	Completed	Completed	Maintenance	Maintenance	Maintenance	Completed	Maintenance	Completed
3	Completed	Completed	In progress	Maintenance	Completed	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Completed	Maintenance	Maintenance	Maintenance
4	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed
5	Completed	Completed	In progress	Completed	Not started	Not started	In progress	Completed	Completed	NA	NA	Completed	Completed	Completed	Completed
6	Completed	Completed	Completed	Completed	Completed	Completed	In progress	In progress	Completed	In progress	Completed	In progress	Completed	Completed	Completed
7	In progress	Maintenance	Maintenance	Maintenance	In progress	In progress	In progress	Completed	Maintenance	Maintenance	Completed	NA	Completed	Completed	Completed
8	Maintenance	Maintenance	Maintenance	In progress	In progress	Not started	In progress	Completed	Maintenance	Maintenance	Maintenance	Maintenance	In progress	Maintenance	Maintenance
9	Maintenance	Maintenance	Maintenance	Completed	Maintenance	Maintenance	Maintenance	Completed	Completed	Maintenance	Maintenance	Maintenance	Completed	Completed	In progress
10	In progress	In progress	Completed	Completed	Completed	Completed	In progress	Completed	Completed	Completed	Completed	Completed	Completed	Completed	In progress
11	Completed	Completed	Completed	In progress	In progress	In progress	Not started	Not started	Completed	Completed	Maintenance	Maintenance	Completed	Completed	Completed
12	Maintenance	Maintenance	Maintenance	Completed	Completed	NA	In progress	Completed	Completed	Completed	Completed	In progress	Completed	Completed	Completed
13	In progress	Maintenance	In progress	In progress	Maintenance	In progress	Maintenance	Maintenance	Completed	Maintenance	NA	Completed	Completed	Completed	Completed
14	Maintenance	Completed	Completed	Completed	Completed	Not started	Not started	Not started	Completed	Maintenance	Maintenance	NA	Completed	Completed	NA
15	In progress	In progress	In progress	In progress	In progress	In progress	In progress	In progress	Maintenance	Maintenance	In progress	In progress	Maintenance	Maintenance	Maintenance
16	Maintenance	Maintenance	Maintenance	Completed	In progress	In progress	In progress	Completed	Completed	NA	NA	NA	NA	NA	NA
17	Completed	Completed	Completed	Completed	Completed	Completed	Not started	Not started	Completed	NA	NA	In progress	Not started	Not started	Not started
18	Maintenance	Maintenance	In progress	Maintenance	Completed	Completed	Completed	Completed	Maintenance	Maintenance	In progress	Maintenance	Completed	Completed	Completed
19	Completed	Maintenance	Maintenance	Completed	Completed	Completed	In progress	In progress	In progress	Completed	NA	NA	In progress	In progress	Completed
20	In progress	In progress	In progress	In progress	Completed	Completed	In progress	In progress	In progress	Completed	NA	In progress	In progress	In progress	Not started

Notes: Data were collected in 2020 for the reporting period of Jan 1, 2020 to June 30, 2020.

Respondents were asked to report on the status of 15 implementation tasks. They could choose whether the task was: maintenance, complete, in progress, not yet started, or not applicable to their site.

Each row represents the responses for each of the 20 Cancer Centers in Cohort 2, for each of the 15 tasks.

Cohort 1 (as of Fall 2020)

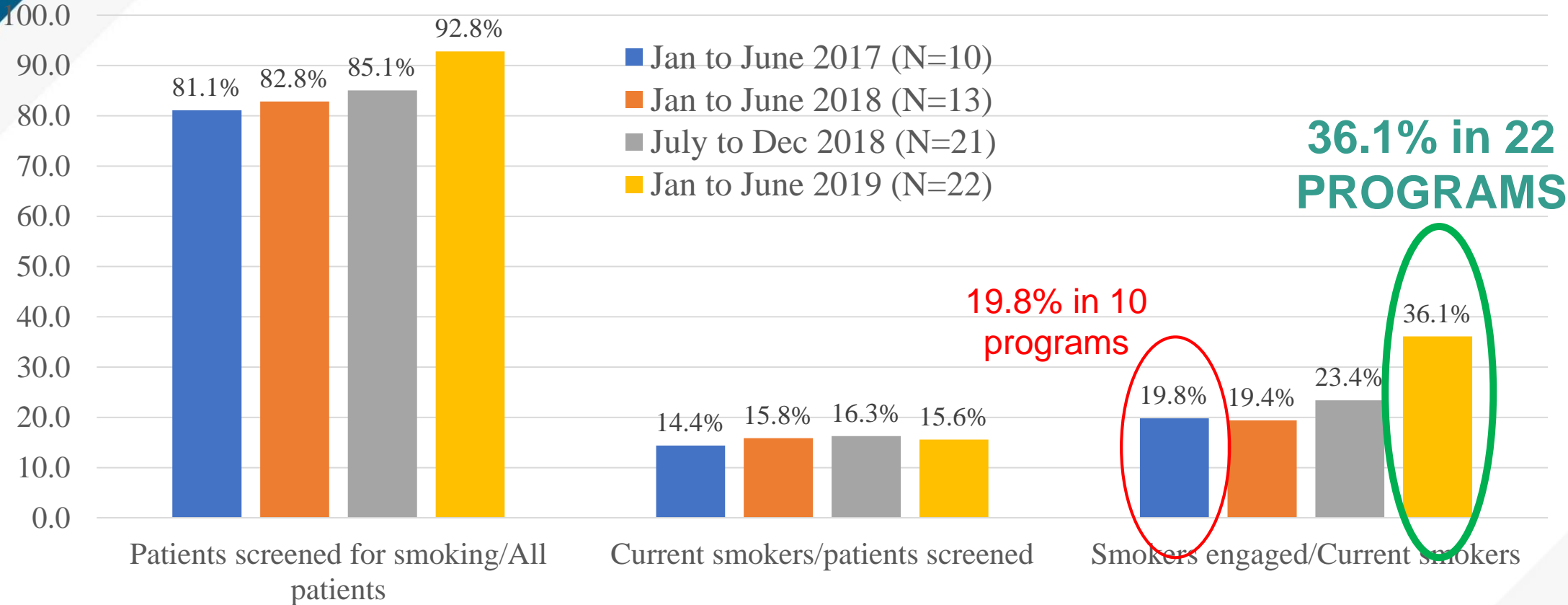
C3I support resulted in progress for program development and implementation over time

Cohort 2 (as of fall 2020)



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Reach and Engagement



Engagement in a tobacco treatment program is defined as: participation in an individually or group delivered tobacco treatment program, in-person or via phone, a fax or eReferral to a quitline, a website, or a text/mobile program, providing counseling regarding quitting, or prescribing a smoking cessation medication. All patients are age 18 and older.

The C3I has the potential to significantly increase in the number of cancer patients who receive evidence-based support and who will have the opportunity to have improved cancer treatment outcomes



Thank You