Strategies to Enhance Receipt of Tobacco-Related Lung Cancer Care in South Carolina

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Hollings Cancer Center

An NCI-Designated Cancer Center



The Cancer Burden and Risk Factors in South Carolina











51% 76%	51% 69%
7 6%	69%
	03/0
14%	27%
19%	6%
3%	2%
\$69,021	\$58,234
\$37,638	\$32,823
12%	15%
19%	14%
11%	13%
	19% 3% \$69,021 \$37,638 12% 19%

In Addition:

- 14% living in rural counties (RUCC 4+)
- 75% of counties include areas designated as rural
- One of fastest growing veteran populations in the U.S.
- Latine population has doubled in size in last 20 years
 - Median age of Latine population is 26 years
 - Median age of total SC population is 36 years
- Unique Sea Island population

Underuse of Surgical Resection among Non-Hispanic White People and Black/African American People in South Carolina

Independent Predictors of Surgical Resection in Patients With Localized, Non-small Cell Lung Cancer (N=2,506 NHW, 550 AA; Funded by an NIH/NIA Pilot Grant, PI: Esnaola, Mentor: Ford)

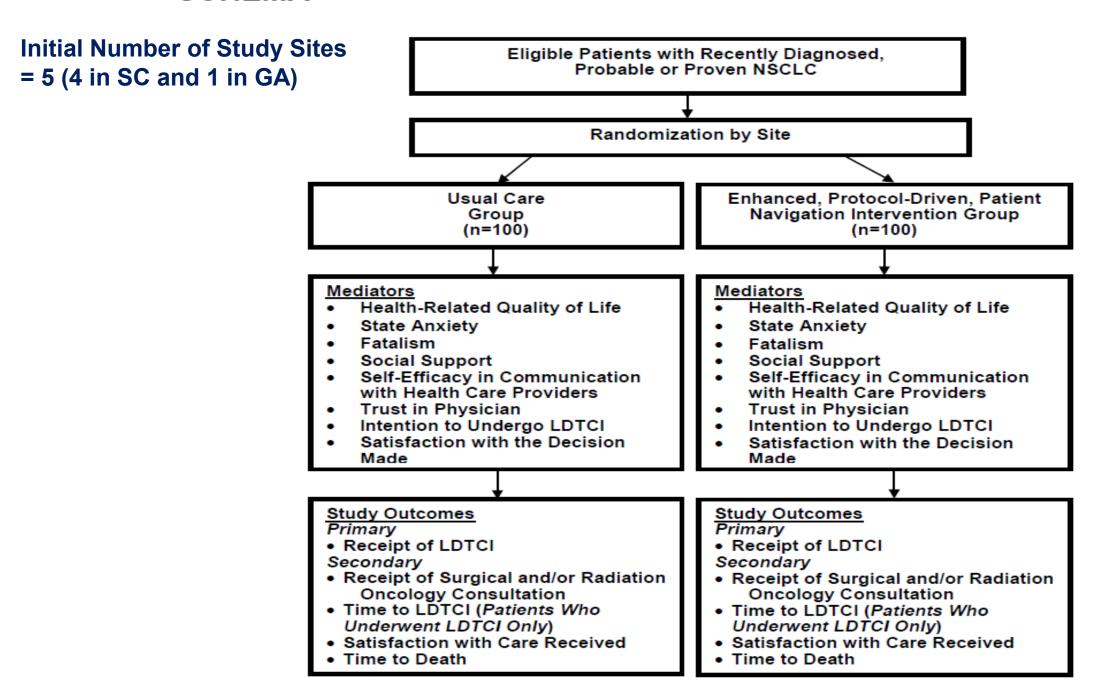
Variable	OR (95% CI)	p Value
Age 70-79	0.48 (0.28-0.82)	0.0078
Age > 80	0.18 (0.10-0.32)	<0.001
AA race	0.43 (0.34-0.55)	<0.001
Separated or divorced	0.71 (0.52-0.97)	0.029
Widowed	0.60 (0.48-0.76)	<0.001
Comorbidity	0.69 (0.62-0.78)	<0.001
Living in poverty	0.67 (0.51-0.88)	0.005
НМО	0.47 (0.26-0.85)	0.013
Medicare	0.53 (0.39-0.72)	<0.001
Medicaid	0.37 (0.22-0.64)	0.0003
Self-pay	0.41 (0.25-0.67)	0.0004

Esnaola NF, Gebregziabher M, Knott K, Finney C, Silvestri GA, Reed CE, Ford ME. Underuse of surgical resection for localized, non-small cell lung cancer among whites and African Americans in South Carolina. Annals of Thoracic Surgery 2008;86:220-6; discussion 227.

Southern Lung Cancer Study (SLCS)

- NIH/NIMHD: R01MD005892
- Multiple Pls: Marvella E. Ford, PhD, Nestor F. Esnaola, MD, MPH, MBA
- Study Coordinator: Kendrea D. Knight, MSPH
- Study Biostatistician: Elizabeth Hill, PhD

SCHEMA



II. Identification and Recruitment of Study Participants

Step 1. Academic detailing to identify referring physicians

Step 2. Contact potential referral sources to:

- Inform them about the SLCS
- Give them your contact information
- Ask them for assistance in identifying potential study participants
 - <u>Letters</u> may be mailed or emailed to the referring MDs to describe the study
 - Flyers may also be mailed or posted in strategic work spaces/offices, such as:
 - Physician's offices
 - Clinics
 - Radiology Reading rooms
 - Bronchoscopy suites

Academic Detailing

Reaching Out to Referring Physicians:

- PCPs
- Diagnostic Radiologists
- Lung Cancer Screening Programs
- Nuclear Medicine
- Pulmonologists
- Bronchoscopy Suites
- Pathologists
- Cancer Registries
- General Surgeons
- (Cardio)thoracic Surgeons
- Medical Oncologists
- Radiation Oncologists

National Cancer Institute Community Oncology Research Program



Purpose

 NCORP brings cancer prevention clinical trials and cancer care delivery research (CCDR) to people in their communities

National Cancer Institute Community Oncology Research Program

The NCORP Network

- Includes 7 Research Bases and 32 Community Sites
 - 14 of the Community Sites are designated as Minority/Underserved Community Sites
 - These sites have a patient population comprised of at least 30% racial/ethnic minorities or rural residents
- https://ncorp.cancer.gov

Southern Lung Cancer Study: <u>Study Sites</u>

STUDY SITE	LOCATION
Abbott Northwestern-Metro-Minnesota Oncology Research Consortium (Abbott)	Minneapolis, MN
Baptist Memorial Hospital-Memphis	Memphis, TN
Cancer Institute – Greenville Health System (GHS)	Greenville, SC
Fox Chase-Main Hospital Campus (Fox Chase)	Philadelphia, PA
Fox Chase-Temple (Temple)	Philadelphia, PA
Gibbs Cancer Center & Research Institute-Spartanburg Regional Healthcare System (Spartanburg/GCC)	Spartanburg, SC
Health Shreveport (LSU-Shreveport)	Shreveport, LA
Helen F. Graham Cancer Center at Christiana-Care (Christiana)	Newark, DE
Hennepin County Medical Center (Hennepin)	Minneapolis, MN
McLeod Cancer Center for Treatment & Research (McLeod)	Florence, SC
Medical University of South Carolina Hollings Cancer Center (MUSC/HCC)	Charleston, SC
Nancy N. and J.C. Lewis Cancer & Research Pavilion at St Joseph's/Candler (St. Joseph's/Candler)	Savannah, GA

Southern Lung Cancer Study: Study Sites

STUDY SITE	LOCATION
North Memorial Health Care (North Memorial)	Robbinsdale, MN
Ochsner Cancer Institute-Ochsner Health System (Ochsner)	Jefferson, LA
SECU Cancer Center-Mission Health (Mission Health)	Asheville, NC
Self Regional Healthcare Cancer Center (Self)	Greenwood, SC
Stanley S. Scott Cancer Center-Louisiana State University Health New Orleans (LSU-NO)	New Orleans, LA
Stroger Hospital Cook County MUNCORP (Stroger)	Chicago, IL
The Comprehensive Cancer Center of Wake Forest University (WFU)	Winston-Salem, NC
Virginia Commonwealth University Massey Cancer Center (VCU)	Richmond, VA
Wichita NCORP (Wichita)	Wichita, KS
William Beaumont Health System	Royal Oak, MI; Troy, MI; Grosse Pointe, MI

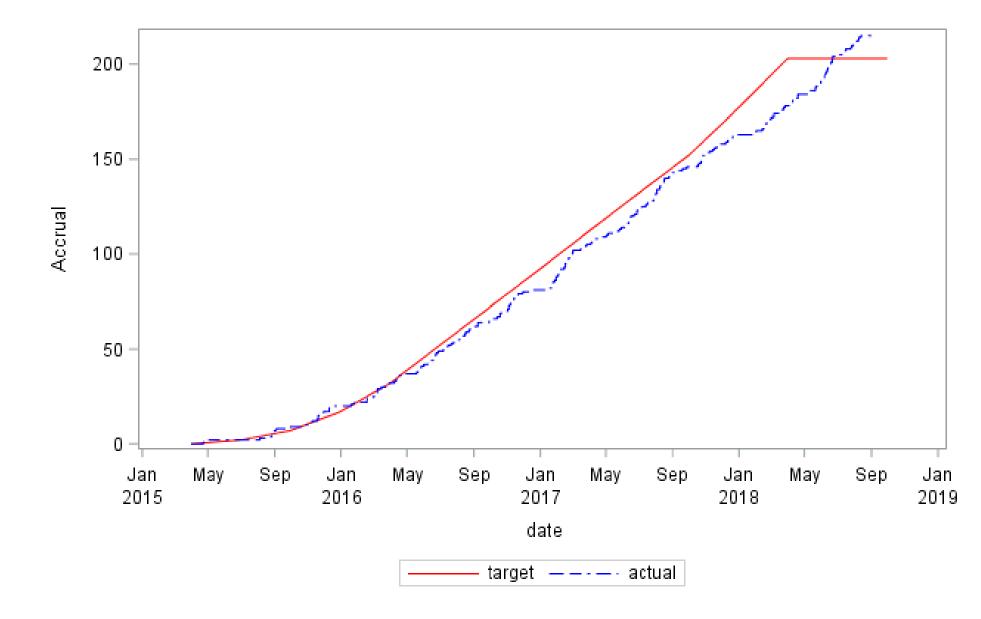
SLCS Patient Navigators Identify and Eliminate Patient's Real and Perceived Barriers to Care

Barrier	Examples
Acceptance/Refusal Barriers: Financial and Economic Issues	Inadequate insurance coverage/funds
Acceptance/Refusal Barriers: Lack of Transportation	Inability to get to & from appointments
Acceptance/Refusal Barriers: Assumptions	Inaccurate beliefs regarding cancer
Awareness Barriers: Communication and Language	Difficulty telling desires/needs
Opportunity Barriers: Health care system	Fragmentation of care
Acceptance/Refusal Barriers: Bias based on race/age/culture	Fear, mistrust and cultural beliefs May lead to delay or refusal of care

May lead to delay or refusal of care

To Recruit 200 Black Patients with Stage I-II NSCLC:

- Pre-NCORP: 5 Study Sites
- Post-NCORP: 22 Study Sites



Southern Lung Cancer Study Enrollment (2/20/2019)

Study Arm	# Pre- Screened	# Potentially Eligible for Enrollment	# Eligible	# Enrolled*
Usual Care Arm	5,071	307	143	100
Navigation Arm	4,192	419	147	102
Grand Total	9,263	726	290	202

^{*}Consent Rate ≈ 70%





CANCER CENTER



Hollings Cancer Center

Southeastern Consortium for Lung Cancer Health Equity



Collaborative Team History



Addressing Disparities in Lung Cancer Screening Eligibility and Healthcare Access

An Official American Thoracic Society Statement

M. Patricia Rivera Hormuzd A. Katki, Nichole T. Tanner, Matthew Triplette, Lori C. Sakoda, Renda Soylemez Wiener, Roberto Cardarelli, Lisa Carter-Harris, Kristina Crothers, Joelle T. Fathi, Marvella E. Ford Robert Smith, Robert A. Winn, Juan P. Wisnivesky, Louise M. Henderson and Melinda C. Aldrich*; on behalf of the American Thoracic Society Assembly on Thoracic Oncology

This official statement of the American Thoracic Society was approved September 2020

Background: There are well-documented disparities in lung cancer outcomes across populations. Lung cancer screening (LCS) has the potential to reduce lung cancer mortality, but for this benefit to be realized by all high-risk groups, there must be careful attention to ensuring equitable access to this lifesaving preventive health measure.

Objectives: To outline current knowledge on disparities in eligibility criteria for, access to, and implementation of LCS, and to develop an official American Thoracic Society statement to propose strategies to optimize current screening guidelines and resource allocation for equitable LCS implementation and dissemination.

Methods: A multidisciplinary panel with expertise in LCS, implementation science, primary care, pulmonology, health behavior, smoking cessation, epidemiology, and disparities research was convened. Participants reviewed available literature on historical disparities in cancer screening and emerging evidence of disparities in LCS.

Results: Existing LCS guidelines do not consider racial, ethnic, socioeconomic, and sex-based differences in smoking behaviors or lung cancer risk. Multiple barriers, including access to screening and cost, further contribute to the inequities in implementation and dissemination of LCS.

Conclusions: This statement identifies the impact of LCS eligibility criteria on vulnerable populations who are at increased risk of lung cancer but do not meet eligibility criteria for screening, as well as multiple barriers that contribute to disparities in LCS implementation. Strategies to improve the selection and dissemination of LCS in vulnerable groups are described.

Keywords: lung cancer screening; disparities in lung cancer screening; barriers to lung cancer screening

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AIM 1

 To initiate and evaluate a high-impact, multimodal, and multilevel <u>navigation</u> intervention to promote LCS among Black/African American (AA) individuals, from both rural and urban medically underserved communities in VA, NC and SC

AIM 2

 To develop a robust, shared population-based cohort and biorepository to further support research in <u>understanding biological determinants</u> or risk factors for poor lung cancer outcomes among Black/AAs







	VCU/MCCC	MUSC/HCC	UNC/LCCC
Catchment area population	4M (Central/ Eastern VA)	5M (State)	10M (State)
Black/AA	28%	27%	22%
Counties HRSA-designated MUAs	54/65	35/46	93/100
Residents living in rural counties (RUCA 4+)	12%	18%	23%
Adult cigarette use (% Black/AA Men)	14% (19.3%)	17.6% (22.4%)	18.5% (25.3%)
Medicaid Expansion	Yes	No	Yes

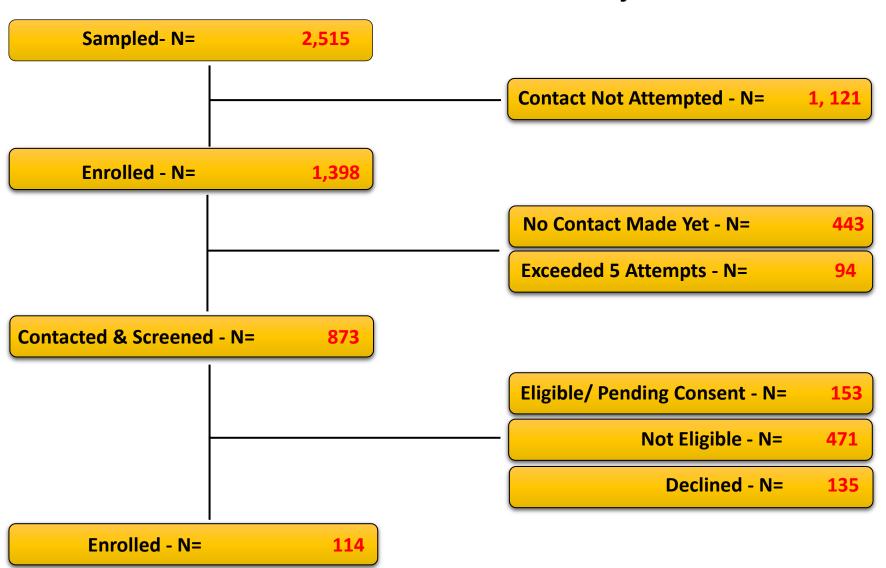








Contact & Enrollment Summary





Preliminary Findings

Common Reasons for Declining Participation	Common Concerns/ Obstacles To complete Lung Cancer Screening	Initial Trends on the Multimodal Navigation Approach
Hearing the word cancer Net interested in study or setting.	Cost concerns	Majority of participants would
 Not interested in study or getting screened 	Insurance coverage	recommend others to participate
 Not comfortable enrolling in the study, 	J	Some have mentioned no changes
citing the injury language in the ICF	Recent medical history that	to quality of life
form	prevents participation	
Study is not a good fit Too busy no time, no interest in		
 Too busy, no time, no interest in answering questions 		
Already decided to get LCS		
Unwilling to go through the consent		
process		
Currently dealing with other health		
problems		
 No reason provided – hung up 		



Multimodal Navigation

- Create a new, novel strategy for navigation that could become the gold standard and improve access to LCS and early detection for medically underserved communities
- Allow more individuals to screen and to become involved in research and clinical trials

