



# FLORIDA HOSPITAL CANCER INSTITUTE

DeLand | Fish Memorial | Flagler | Memorial Medical Center

## Community Outreach: Outcomes Report Low-Dose CT Lung Screening

### Significance & Background:

There is a pressing need to improve lung cancer screening and care coordination in Flagler and Volusia counties in Florida because these counties have higher than the national incidence and mortality rates in lung cancer, and a higher than state average for chronic smokers.

### Census Data

County Name	Total Population <sup>1</sup>	Population 50+ <sup>1</sup>	Smoking Prevalence <sup>2</sup>
Flagler County	102,408	51,543	18%
Volusia County	507,531	231,783	25%
<b>TOTALS</b>	<b>609,939</b>	<b>283,326</b>	<b>22% <sup>3</sup></b>

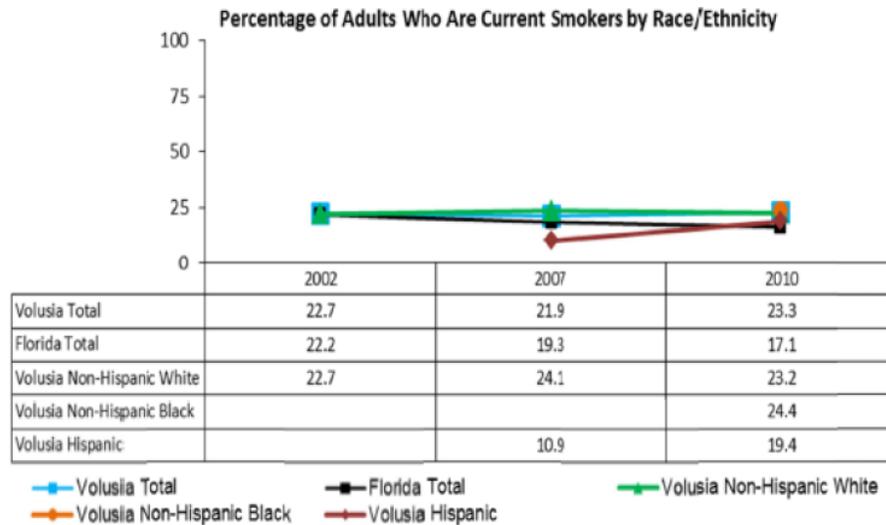
**Tobacco Use:**

17% of Florida adults are current smokers. This is defined as those who have smoked 100+ cigarettes in their lifetime and who are still smokers. Volusia County adults surpass this percentage by 23%. Non-Hispanic Blacks (24%) and ages 18-44 (29.6%) have the highest rates.

Percentage of Adult Current Smokers Who Tried to Quit Smoking at Least Once in the Past Year			
	2002	2007	2010
Volusia	44.8	50.9	61.3
Florida	55.3	53.2	30.1
Volusia White	44.1	53.7	56.9
Volusia Black	Not available	Not available	Not available
Volusia Hispanic	Not available	Not available	Not available
Volusia Male	42.9	51.2	61.7
Volusia Female	46.6	50.6	60.9

*Source: Behavioral Risk Factor Surveillance System Data Report*

Tobacco use is the single most preventable cause of death and disease in the United States. Each year, approximately 443,000 Americans die from tobacco-related illness. For every person who dies from tobacco use, 20 more people



**Rationale:**

Lung cancer is our number one cancer site in our Region, based on data from our Cancer Data Services Department. Our stage at diagnosis is worse than the national average. We have a much higher incidence of smokers and former smokers in the community who likely meet eligibility criteria

**Purpose of Lung Screening:**

The US Preventive Services Task Force issued a final B-level recommendation in December 2013 indicating that individuals between the ages of 55 and 80 years who have a 30-pack-year smoking history and have smoked within the past 15 years should receive annual low-dose computed tomography (CT) lung cancer screening. The Centers of Medicare and Medicaid Services issued similar eligibility criteria.

**Methods:**

The lung cancer screening committee included 15 members, representing a broad range of expertise. This team was co-led by a physician Chair and Vice-Chair. The committee discussed operational, clinical

and system issues related to the implementation of CT lung cancer screening and developed recommendations for implementing CT lung cancer screening program for the Central Division -North Region of the Adventist Health System; a four-hospital initiative.

The committee identified six main objectives that must be achieved to optimize the efficiency and effectiveness of implementing CT lung cancer screening: 1) Develop a Pulmonary Program Governance Committee; 2) Accurately identify persons eligible for screening; 3) Identify and provide access to screening at authorized and qualified locations for eligible individuals; 4) Ensure appropriate care coordination for positive and negative screening results; 5) Monitor and support continuous quality improvement of screening programs; and 6) Offer and provide a smoking cessation program for all current smokers. The committee implemented a series of stakeholder-specific pathways, in order to, achieve these goals.

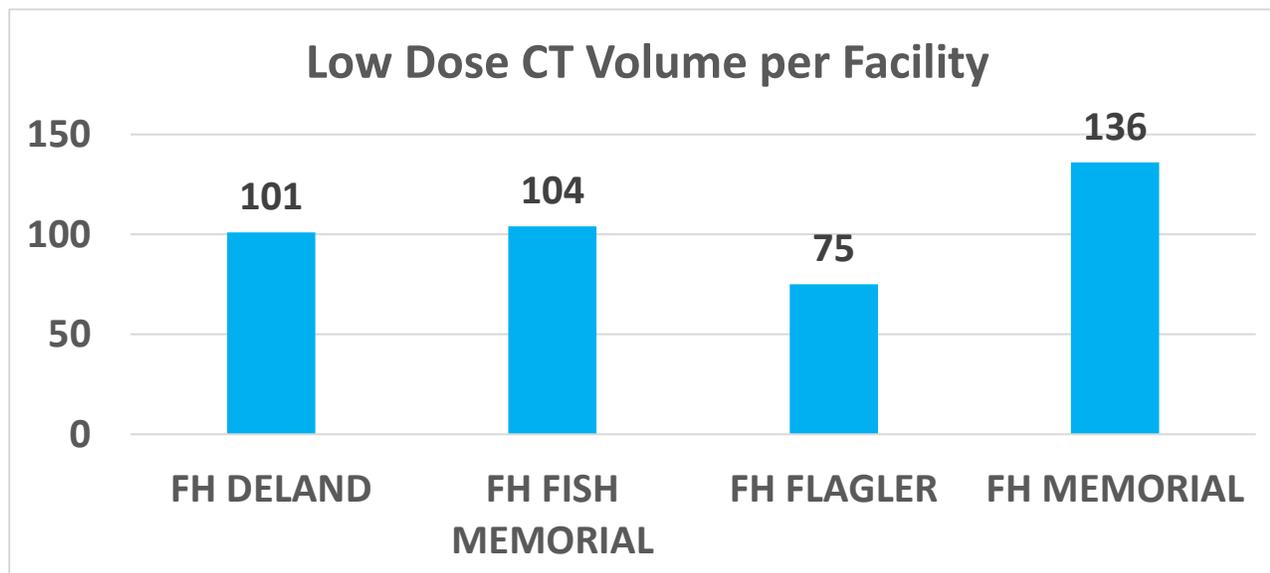
### **Innovation:**

The Lung Care Nurse Navigator's role was central in this project. A goal was set to complete a total of 50 screens during 2016. For 2017, each facility far surpassed the volume goal set. The scheduling of 2 facilities was consolidated during quarter 3. This provided a standardized approach to the scheduling and tracking of screening participants throughout the process. That process will be regionalized in January 2018.

**Results:**

**2017 LOW-DOSE CT REPORT**

<b>FH DELAND</b>	<b>Total</b>
# Completed	101
# LungRad 4	9
# Cancers Found	1
<b>FH FISH MEMORIAL</b>	<b>Total</b>
# Completed	104
# LungRad 4	6
# Cancers Found	1
<b>FH FLAGLER</b>	<b>Total</b>
# Completed	75
# LungRad 4	7
# Cancers Found	1
<b>FH MEMORIAL</b>	<b>Total</b>
# Completed	136
# LungRad 4	15
# Cancers Found	1



## **Effectiveness of Program**

During 2017, our Region identified 4 new lung cancer patients through this screening initiative. In addition, there were 37 participants who will require additional follow-up, based on the findings of their screening test. Physician members in our community have significantly increased their counseling and referring of patients to this program. We completed 416 LDCT scans from January – November: FH Deland: 101; FH Fish Memorial: 104; FH Flagler: 75; FH Memorial: 136. With our high stage at diagnosis and significant population in our community who are smokers, this program is important to continue.

## **Conclusion:**

The execution of the pathway to offer effective and efficient population-based CT lung cancer screening requires involvement and coordination of stakeholders across the health care system to address the procedural, data and infrastructural requirements that were recognized.