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Subject Firefighter Esophageal Pre-Cancer and Cancer Screening

Attachments CYFT-Firefighter-Host-an-Event-Brochure_LUD-AD-0482-Rev-C.pdf; 2019-Pinkerton-et.-al._Fire-Fighters_Cancer-Risk_Update.pdf; 2014-Daniels-et.-al._Fire-Fighters_Cancer-Risk.pdf

Chief Wright,

Hi! I hope you had a nice rest of the day. Thank you for meeting with me today to discuss our esophageal pre-cancer and cancer screenings for firefighters for esophageal cancer prevention. Attached are some clinical studies regarding esophageal cancer risk in firefighters. The good news is that esophageal cancer is preventable if caught in the pre-cancerous stage. (Barrett's Esophagus). I have also included a few links below of news stories that covered a few local firefighter esophageal screening events.

Lucid Diagnostics is a medical technology innovator specifically focused on the prevention of Esophageal Adenocarcinoma; the **fastest-growing cancer in the US, with an 80% mortality rate**. We launched our "Check Your Food Tube" (CYFT) initiative earlier this year due to the marked increase firefighters have of developing esophageal cancer. Since our inaugural event in January, we have screened over 12,000 firefighters and first responders nationwide. Please see the links to a few media stories on local events in MA and RI.

Unlike Galleri, OneTest, or ultrasound, EsoGuard detects **pre-cancer** which is pivotal in preventing esophageal disease progression, as esophageal cancer is **highly lethal even in the early stages**. Originally developed through an NIH grant, Lucid's technology was highlighted in 2020 by the [National Cancer Institute](#) as one of the year's most significant advances in cancer prevention and has been shown to be highly accurate at detecting Barrett's Esophagus in a [published study in Science Translational Medicine](#) with **over 90% specificity and 90% sensitivity**

Eligibility

To be eligible for screening you **must have 3 or more** of the following risk factors:

- * Firefighter for 10 + years (both professional and volunteer)
- * Heartburn/acid reflux and/or take any medication for heartburn/acid reflux
- * Age 50+
- * Male
- * Caucasian race
- * BMI of 30 or greater
- * Smoke or a history of smoking
- * Family history of Barrett's Esophagus or Esophageal cancer

Why is testing important?

- * Esophageal Adenocarcinoma is the **fastest-growing cancer in the US** with an **80% mortality** rate at 5 years.
- * Firefighters have a **62% higher risk** of getting esophageal cancer and a **39% increased risk of dying** from esophageal cancer according to the NIOSH research.
- * ~ 40% of individuals never reported symptoms prior to the diagnosis of esophageal cancer.

- * Esophageal cancer is the 7th deadliest cancer in men.
- * When detected in the pre-cancerous stages patients can be monitored/treated with high success rates in preventing progression to esophageal cancer.

Cost and Funding for Test:

- * Each test would be \$1200. This test in firefighters, should be done every 15 years, so essentially it is \$80 per year. Many times, the town has additional funding they can use for health and wellness for the firefighters.

Testing Process

The test involves swallowing a small capsule (with sips of water) to swab a sample of cells from the esophagus. It is not painful and takes about a minute or so on average. The only prep is the **patient may not have anything to eat or drink for 2 hours prior to their test**. There are no post-test restrictions. Despite the actual testing process being pretty quick, we do allocate about 15 minutes per patient to go over disease state, answer any questions people may have, etc. We bring in our clinical team to facilitate the testing at a location selected by you - typically a fire station or union office

Results

A positive EsoGuard test is not an automatic indication of cancer but signals there are epigenetic changes happening within the cells of the distal esophagus that need to be further evaluated with an upper endoscopy. A negative test does not require any additional action. .

Post-Event Follow Up

We will provide both a post-event email for you to send out to participants, and a handout at the event that recaps the content above and includes contact information for our team should people have any questions after their test.

[Waltham firefighters undergo new cancer screening | Watch](#)

[Cranston firefighters try new method of screening for cancer \(youtube.com\)](#)

<https://www.turnto10.com/features/health-landing-page/local-firefighters-benefit-from-a-new-non-invasive-screening-for-esophageal-cancer-southern-new-england-rhode-island-october-30-2024>

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