

# SIGNIFICANT FINDINGS

### 2017 AGGREGATE DATA 11,967 FIRE FIGHTERS

## LIFE SCAN FIGHTING CANCER AND HEART DISEASE

According to a multi-year study released in 2015 by The National Institute for Occupational Safety and Health (NIOSH), firefighters have a 9 percent higher risk of being diagnosed with cancer and a 14 percent higher risk of dying from cancer than the general population. The report also delves into the even greater risks firefighters face for developing certain types of cancers. Another key takeaway from the study is that 61 percent of line of duty deaths for career firefighters between 2002 and 2016 were attributed to cancer. “The Firefighter Cancer Support Network FACT Check”

“Cardiovascular disease is on the increase as well. The Harvard Study (2017) found 45% of the nation’s line-of-duty firefighter fatalities are due to cardiovascular disease (CVD).

*The following Aggregate Data represents significant findings from a cross-section of Life Scan’s thirty thousand firefighter patients from both career and volunteer fire departments located in twelve states during 2017. This critical data is supportive of the conclusions from prestigious studies on firefighter health and their increased risk for heart disease and cancer. These significant findings are potentially catastrophic diseases that were identified early through Life Scan’s integrated approach that includes a comprehensive physical, laboratory blood work, ultrasound imaging, and cardiopulmonary testing.*

### 2017 AGGREGATE DATA SIGNIFICANT FINDINGS

Masses/Suspicious Cancer	
Gallbladder	33
Liver	44
Kidney	92
Spleen	40
Bladder	11
Prostate	14
PSA (Prostate Specific Antigen) Increase over 1 Year	122
Testicular	34
Ovarian	28
Uterine	92
Pancreas	22
Thyroid	193
Thyroid Suspicious Nodules being monitored	679
<b>Total</b>	<b>1404</b>
Cardiovascular Disease	
Elevated LDL/HDL ratio (Heart Disease Risk)	511
*Stage 2 Hypertension (Stroke Risk)	187
*Abnormal ECG/Stress Test (Abnormal Rhythm)	495
*Carotid Stenosis >50% (Stroke Risk)	54
Hypertrophy (Thickening/Enlargement of the Heart)	120
*Severe Heart valve Dysfunction 90	90
*Bicuspid Aortic Valve	16
*Pericardial Effusion	3
*Abdominal Aorta Aneurysm (>4)	8
*Decreased heart function (low EF)	8
<b>Total</b>	<b>1500</b>
Pulmonary Function	
*Abnormal Pulmonary Function Test (Spirometry)	228
<b>Total</b>	<b>228</b>
Critical Abnormal Bloodwork	
HAZMAT (Heavy Metals and Cholinesterase)	36
Positive Hepatitis C	7
*Diabetes, Elevated A1c >8.1 (Diabetes)	148
Decreased WBC (At risk for viral infections and Leukemia)	290
Chronic Kidney Disease/Renal Failure (low eGFR)	168
<b>Total</b>	<b>649</b>
<b>Total Critical Abnormal Findings</b>	<b>3363</b>

\*In NFPA 1582 Guidelines