HEALTH INFORMATICS FINAL PRESENTATION

# RESOURCES FOR LUNG CANCER

Liz Grauel LIS-794, August 2022



### PROJECT OVERVIEW

- Main Deliverable: Content Management System (CMS) designed as a health informatics resource
- Target Population: Lung cancer patients and their caregivers
- **Key HI Content:** Digital health resources, relevant federal health policies, and applicable health IT



### PROJECT BACKGROUND

#### **Project & Creator Background**

- CMS site designed in fulfillment of coursework for LIS-794 at Dominican University
- Created by Liz Grauel, software industry professional and MLIS student

#### **Motivation**

 Creator's personal experience as a caregiver for her mother, who died from lung cancer in 2016



Liz Grauel (right) and her mother, Mary, in 2015



#### DELIVERABLE OVERVIEW

#### **Content Management System**

- Built using Google Sites
- Content organized into 5 pages
- Focus on intuitive navigation and consumable information

#### **CMS Pages**

- Home Page
- Health Resources Page
- Health Policies Page
- Health IT Page
- About the Creator Page



### TARGET POPULATION

#### **Lung Cancer Patients & Caregivers**

- Lung cancer represents 13% of all cancer diagnoses and is the most common cancer worldwide
- Leading cause of cancer death in the US
- Research and treatment has been historically underfunded by the federal government
- Caused by smoking, environmental exposure to radon and air pollution, and workplace hazards

### TARGET POPULATION

#### **Health Risks for Population**

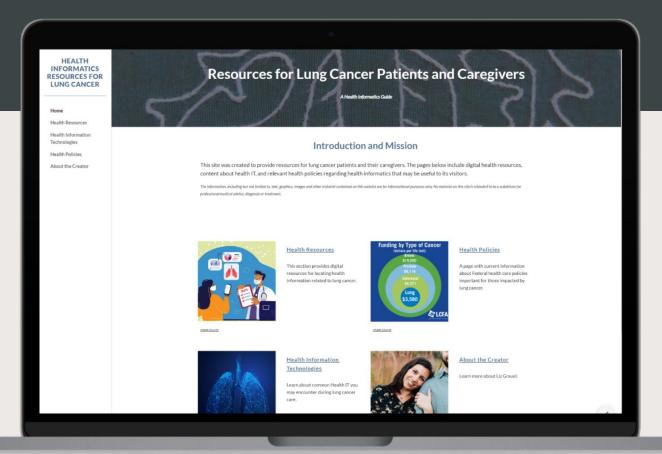
- Metastasis of cancer to other parts of the body;
- Pain;
- Fluid in chest and shortness of breath;
- Anxiety and depression;
- Side effects from radiation and drug treatment;
- Nutritional issues and weight loss.



### CMS DESCRIPTION

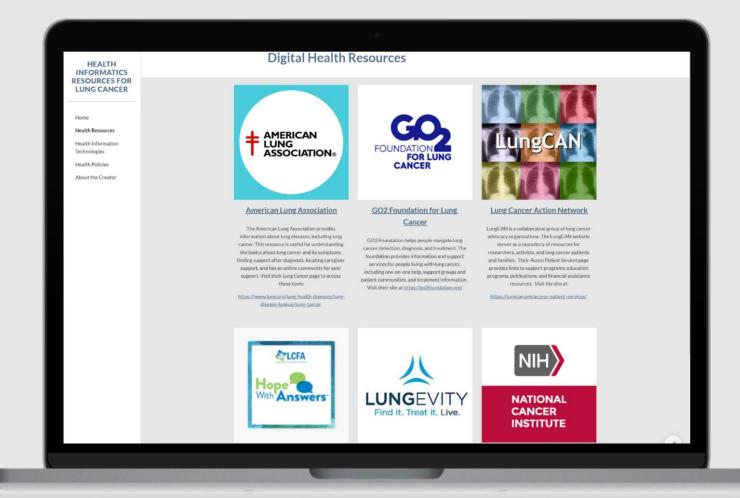
#### **Site Overview**

- Named Health Informatics Resources for Lung Cancer
- Repository of appropriate resources for lung cancer patients and their families
- Designed for ease of navigation and information discovery





### HEALTH RESOURCES



- American Lung Association
- GO2 Foundation for Lung Cancer
- Lung Cancer Action Network

- Lung Cancer Foundation of America
- LUNGevity
- National Cancer Institute



### HEALTH POLICIES

#### **Health Policies** HEALTH **INFORMATICS RESOURCES FOR** LUNG CANCER Patient Protection and Affordable Care Act (ACA) The ACA became law in March 2010. It is a comprehensive health care law, sometimes known as Obamacare, which instituted a federal health insurance Health Resources marketplace with subsidized health insurance rates, expanded the Medicaid program, and provides financial incentives and supports for innovative medical care delivery methods. The ACA requires insurance plans to provide coverage for pre-existing health conditions, makes it illegal for insurance companies to increase rates Health Information based on illness and injury, and ended lifetime and yearly limits to health care coverage. Technologies Health Policies RELEVANCE TO LUNG CANCER PATIENTS AND CAREGIVERS The American Lung Association notes four benefits to lung cancer patients afforded by the ACA: About the Creator Insurance companies are prohibited from revoking coverage when a patient gets sick with a condition such as lung cancer. . All new private insurance plans and marketplace plans must cover treatments that help smokers quit, cover lung cancer screening for people at high risk for lung cancer and cover recommended vaccines without cost-sharing. • The Medicare prescription drug "doughnut hole" began to close in 2011—meaning Medicare will no longer stop paying for medications after patients spend a certain dollar amount per year. Previously, people with serious lung diseases such as COPD and lung cancer had significant out-of-pocket expenses because of this . Insurance companies, selling plans on the marketplace, no longer are allowed to limit the amount of money they will spend on a patient during his or her lifetime. Patients with serious diseases such as lung cancer sometimes met these previous limits and were denied further coverage for that condition (https://www.lung.org/policy-advocacy/healthcare-lung-disease/healthcare-policy/10-lung-health-benefits-aca) LEARN MORE https://eo2foundation.org/advocacy/policy-priorities/affordable-care-act/ https://www.healthcare.gov/glossarv/affordable-care-act/ . https://www.cancer.org/treatment/finding-and-paying-for-treatment/health-insurance-laws/the-health-care-law.html HITECH (Health Information Technology for Economic and Clinical Health) Act of 2009

RELEVANCE TO LUNG CANCER PATIENTS AND CAREGIVERS

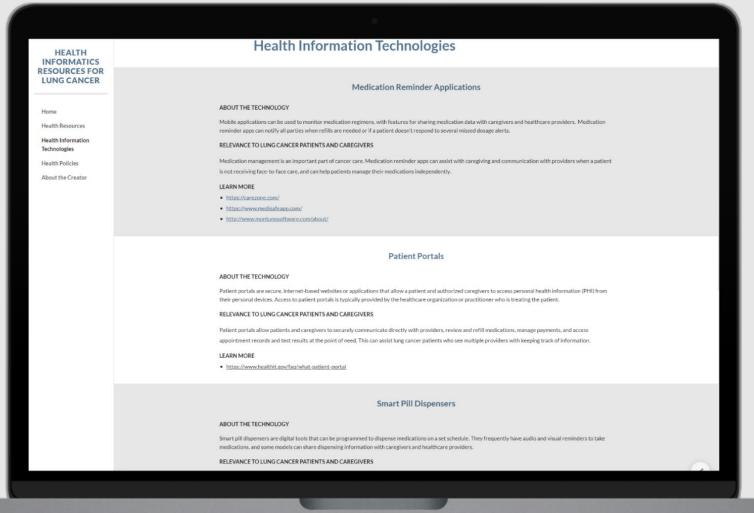
- Affordable Care Act
- HITECH
- Lung Cancer Screening Registry and Quality Improvement Act of 2021

HIESCH was implemented in 2009 with the goals of improving quality and efficiency in the US healthcare system, engaging patients in care, improving coordination of care and the overall health of the population, and ensuring privacy and security, particularly of personal health information (PPII). The HITECH Act provided incentives to health care organizations and providers who adopted Electronic Health Records (EHRs) and implemented them in meaningful ways:

Improvements to coordination of care and the involvement of patients in healthcare decisions are important initiatives in lung cancer treatment and advocacy. The proper use of EHR is central to managing chronic illness and impacts the safety and timeliness of care. This act influenced the adoption of EHR systems and their implementation, and the quality of information shared between providers, providers and patients, and varying institutions is critical for lung cancer treatment.



### HEALTH IT



- Medication Reminder Applications
- Patient Portals

- Smart Pill Dispensers
- Telehealth/Telemedicine



## ABOUT THE CREATOR

HEALTH INFORMATICS RESOURCES FOR LUNG CANCER

Home

Health Resources

Health Information Technologies

Health Policies

About the Creator



#### ABOUT THE CREATOR

Liz Grauel (she/her) is a software industry professional and Dominican University student, where she is studying for her Master's Degree in Library and Information Science. Her studies are focused in social justice and community informatics, and she created this site as part of a Health Informatics course.

Liz became an advocate for lung cancer research and advancements in treatment during her mother's diagnosis and treatment for NSCLC. Mary Graued field in 2016 at the age of \$2 and was selflessly engaged in clinical trials for immunotherapy drugs which have since become approved for first-line treatment of lung cancer with promising improvements to the survival rates and quality of life for lung cancer patients of today.

Based in Dayton. Ohio, Liz is dedicated to her community and maintains a separate site of digital resources for Dayton residents which may be viewed here: <u>Dayton Digital Resources</u>. Guide.



### CLOSING REMARKS

#### **Key Takeaways**

- Importance of user experience
- Content management and organization
- Interdisciplinary approach



### THANK YOU

**Liz Grauel** 

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