

# **Cancer in**

# **Henry County**

Mary Charlton, PhD & Whitney Zahnd, PhD

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#### Who we are



#### **Mary Charlton, PhD**

- Professor, University of Iowa College of Public Health
- Director, Iowa Cancer Registry
- President, Iowa Cancer Consortium
- Co-Leader of the Cancer Epidemiology & Population Science Program, Holden Comprehensive Cancer Center
- Research: Rural/ Urban differences in cancer prevention, screening, & quality of care



#### **Whitney Zahnd, PhD**

- Assistant Professor, University of Iowa College of Public Health
- Past-president of the Iowa Rural Health Association
- Member of the Cancer Epidemiology and Population Sciences Program, Holden Comprehensive Cancer Center
- Research: rural-urban differences in cancer prevention, incidence and outcomes, access to care

## 99 Counties Project Team









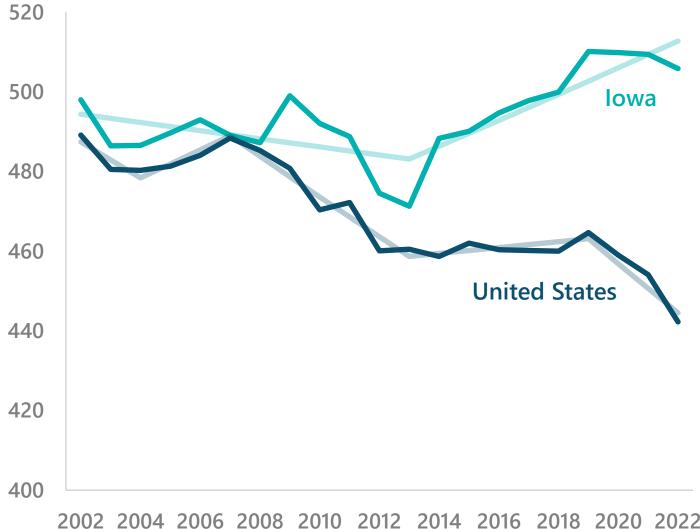
**Holden Comprehensive Cancer Center** 



# "Statistics are people with the tears wiped away"

Dr. Irving Selikoff

#### Iowa has the #2 highest rate of new cancers in the U.S.

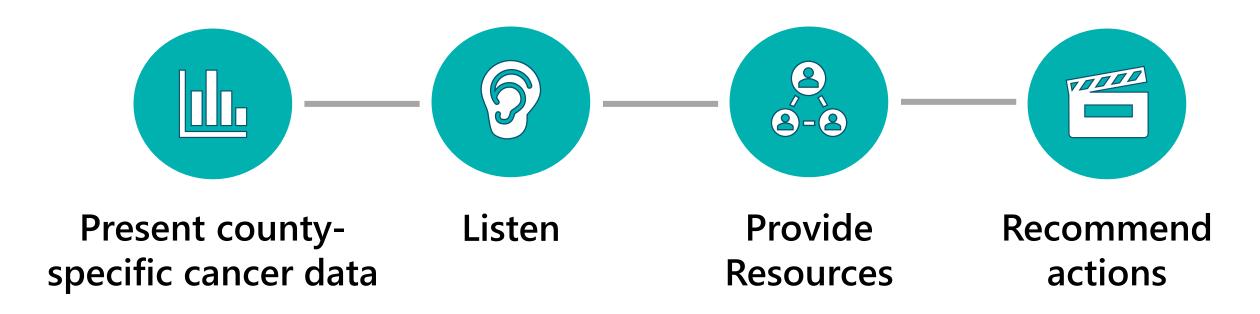






#### **About the Project**

**Goal:** to enhance community engagement & education around cancer prevention and control across all of lowa's 99 counties.

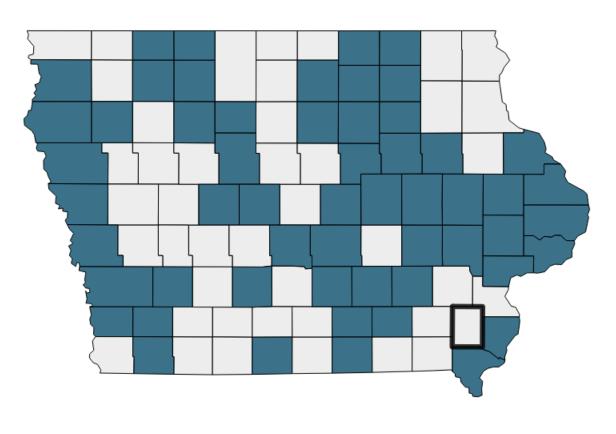




# Over half of Iowa's counties have a higher incidence rate than the U.S.

**56** Counties with rates **OVER** the national average

O Counties below the national average



- Above National rates
- ☐ Similar to National rates



#### **Cancer Control Partners in Iowa**

#### State Government



#### Governor

- Implement state laws
- Advance and pursue policies and programs

#### lowa Legislature

- Propose and vote on legislation
- Appropriate money to state agencies and programs
- Create and modify lowa laws



Health and Human Services

**Bureau of Chronic, Congenital** and Inherited Conditions

**Comprehensive Cancer Control Program** 

Cancer prevention, screening, survivorship

Care for Yourself (Breast & Cervical Cancer Program)

**Colorectal Cancer Screening Program** 

#### Bureau of Environmental Health Services

- · Track environmental health-related diseases
- Assist local boards of health

#### Local (County) Public Health Services/Boards of Health

- · Address health priorities and health disparities
- Promote healthy living
- Protect against environmental hazards
- Assure access to health services

Unity Point, MercyOne, Great River, Avera, Mayo, Methodist, Gundersen, Sanford and numerous independent health systems, hospitals and clinics across lowa

Provide cancer prevention, screening, treatment, and survivorship services



Holden Comprehensive Cancer Center

Iowa's only NCI Designated Cancer Center

Health Care, research, education



Iowa Cancer Consortium

Advocate, collaborate, plan



Data, research, education

#### American Cancer Society

#### Iowa Cancer Action Network

Advocate for better policies

#### **ACS Iowa**

Help with cancer treatment and recovery

#### **UI Research Centers**





Center for Health Effects of Environmental Contamination



## **Federal Funding for Cancer Control**

- The <u>Iowa Cancer Registry</u> is funded in part with Federal funds from the **National Cancer** Institute (National Institutes of Health), Department of Health and Human Services, under Contract No. HHSN261201800012I
- The <u>Cancer in Iowa: 99 Counties Project</u> is specifically funded by Federal funds from the **National Cancer Institute** through grant award: 5R01CA254628-04S2, and through National Cancer Institute funds provided to the University of Iowa Holden Comprehensive Cancer Center (P30CA086862)
- The <u>lowa Cancer Consortium</u> acknowledges the **Centers for Disease Control and Prevention** (CDC) for its funding support under cooperative agreement NU58DP007103 awarded to the lowa Department of Health and Human Services (lowa HHS).

The contents of this presentation are solely the responsibility of the authors and do not necessarily represent the official views of CDC or the National Institutes of Health/National Cancer Institute.



#### **Iowa Cancer Registry Goals**



Assemble & report data on new cancers, cancer deaths, & survival

Respond to **data requests** from organizations & individuals

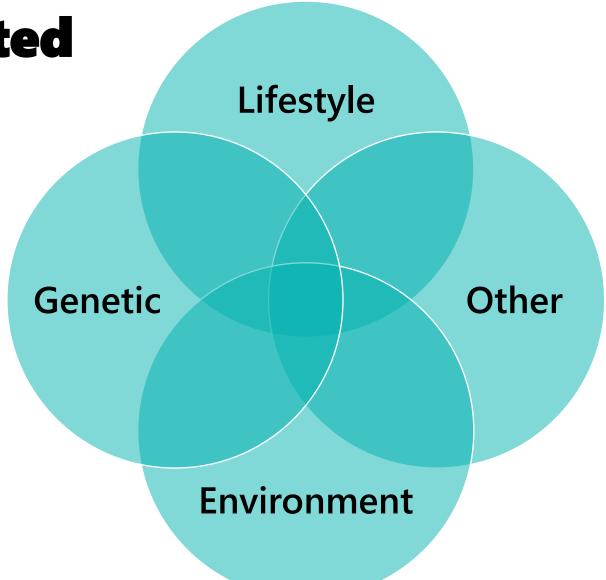
**Support studies** for cancer prevention, research & education



# Background on Cancer

# **Cancer is Complicated**

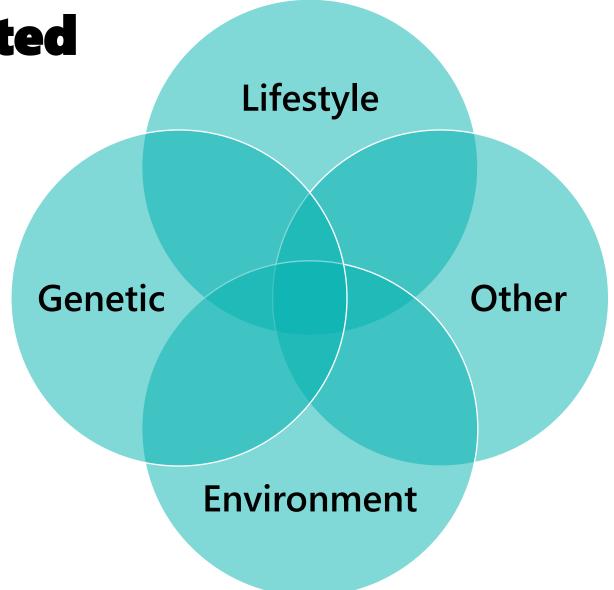
There is no one cause of cancer; it is a combination of different genetic, lifestyle, and environmental risk factors that change the function of cells



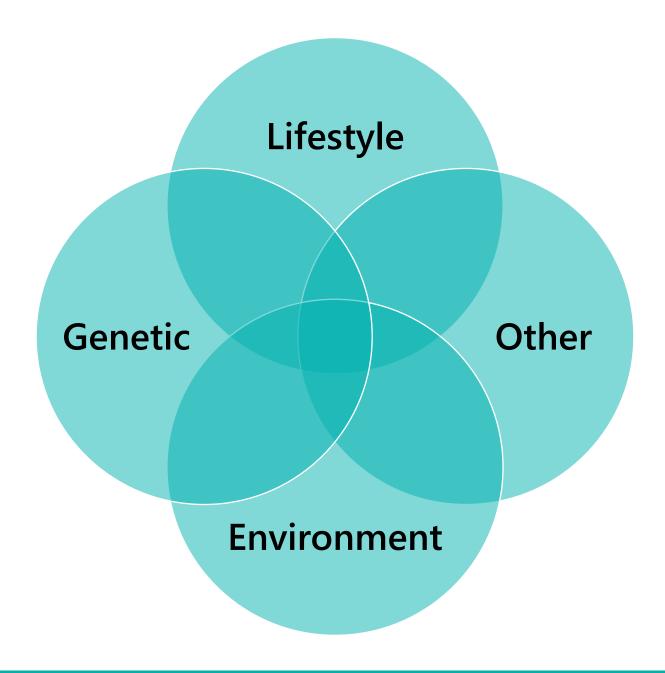


# **Cancer is Complicated**

Risk factors are things that increase your chances of getting cancer

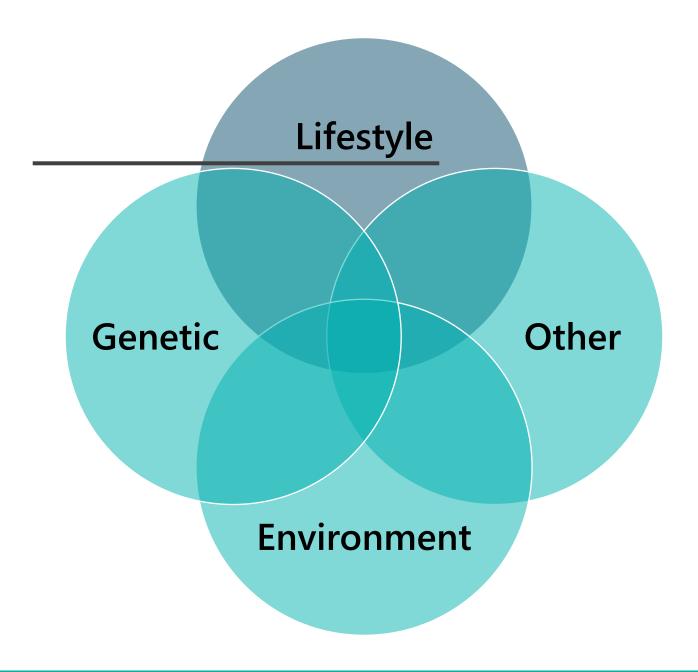




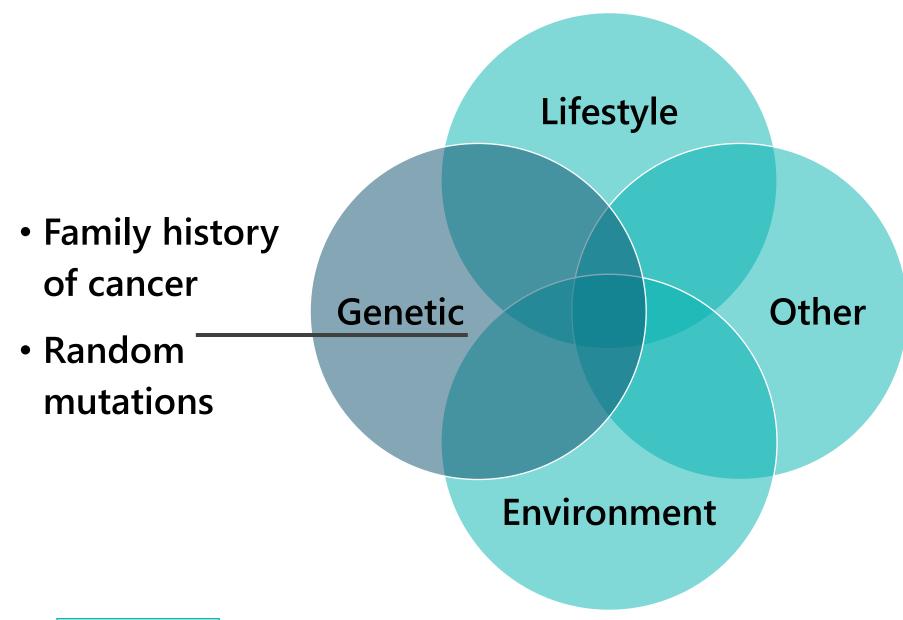




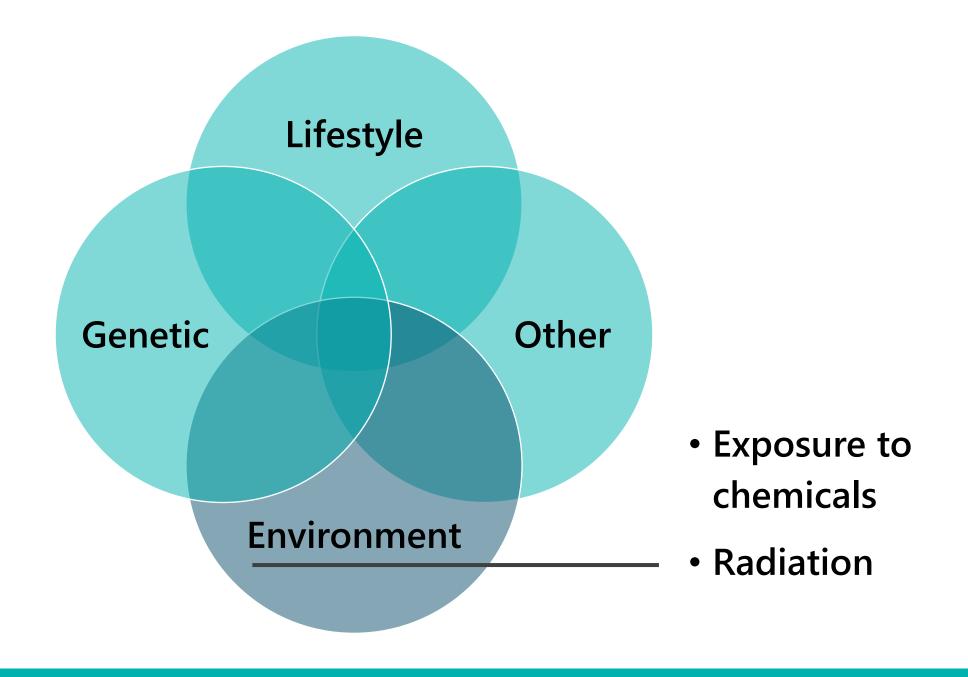
- Tobacco
- Alcohol
- Unhealthy diet
- Not being physically active
- Sunburns



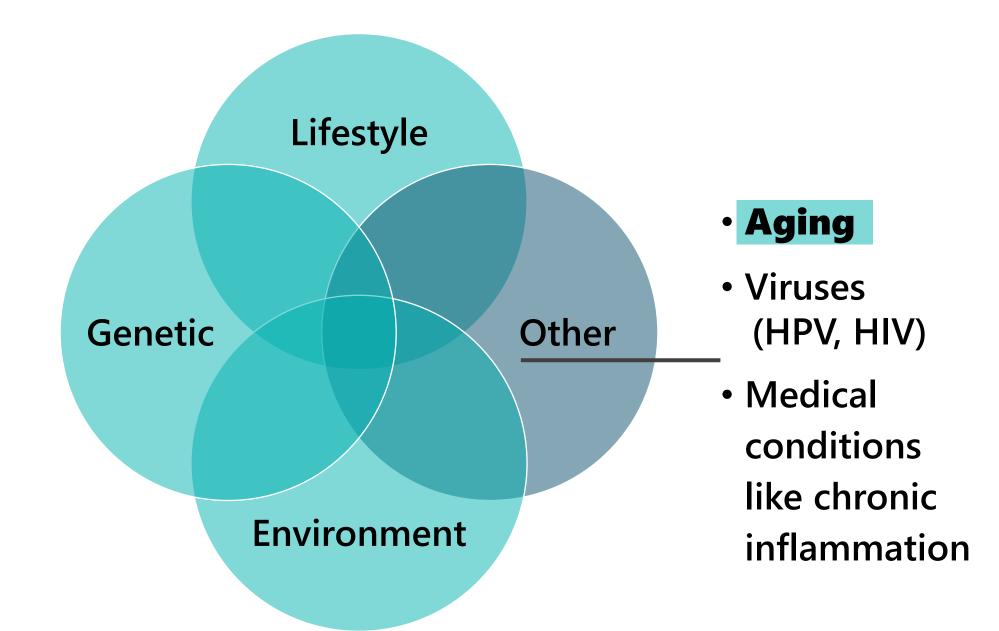














#### **Cancer & the Environment**

- Many Iowans understandably have questions about potential links between environmental exposures and cancer
- This is an important area of continued research, and lowans are right to ask questions and be cautious
- ICR, along with other population-based cancer registries, do not collect data on environmental risk factors, but we do share our data with researchers to support studies of cancer & environmental risk factors



#### **Risk Factors**

- There can be many years between exposure to risk factors & cancer development, which makes it difficult to prove connections.
  - For example, lung cancer may not occur until 30 years after a person starts smoking
- To reduce your risk, avoid risk factors whenever possible
- Today we will focus on things you can do to reduce your cancer risk. These things can be addressed at the state, community, and individual levels.



# **Key Terms**

# **Incidence & Mortality**

- Incidence
  - Number of new cases of a disease occurring during a specified time period in a population
- Mortality
  - Number of deaths from a disease that occur during a specified time period in a population



#### **Rates & Counts**

- Counts
  - -The number of new cases diagnosed or deaths from cancer
- Rates
  - -Adjusts the counts to give a # per 100,000 people
- Age-Adjusted Rates
  - -Addresses the question: If the size and age of the populations were the same, would there be a difference in outcomes?



## Stage definition used today

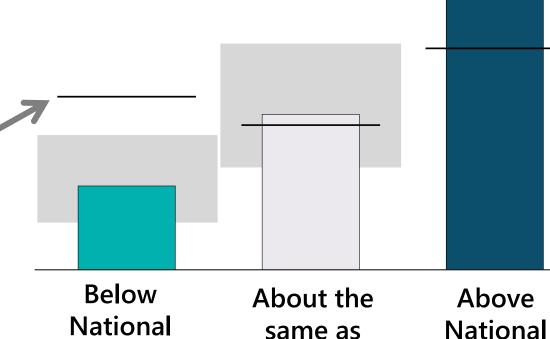
- Early Stage includes
  - Localized: Cancer is limited to the place where it started, with no sign that it has spread
- Late Stage includes
  - Regional: Cancer has spread to nearby lymph nodes, tissues, or organs.
  - Distant: Cancer has spread to distant parts of the body



# How to read the graphs

Unless otherwise stated, bars are your county data

Black lines on bar graphs are United States data



**National Rates** 

Rates

Rates

Grey boxes on bar graphs are 95% Confidence Intervals.

These are used to determine if rates are statistically different from each other



# Cancer in Henry County

#### **New Cancers in Henry County**

All cancer types, average counts and rates, 2017-2021

Each year, there are about

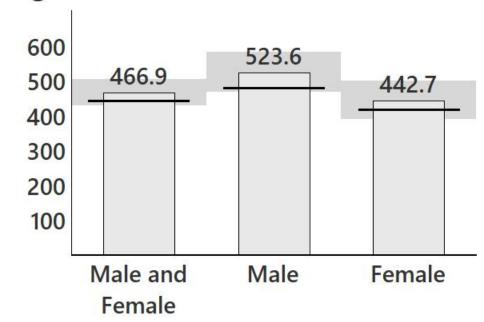
129

new cancers diagnosed in Henry County

Cancer incidence rates in Henry County are not different from the U.S. average

Ranks #75 of 99 counties

Cancer incidence rates are typically higher in men than women





#### **Cancer deaths in Henry County**

All cancer types, average counts and rates, 2018-2022

Each year, there are about

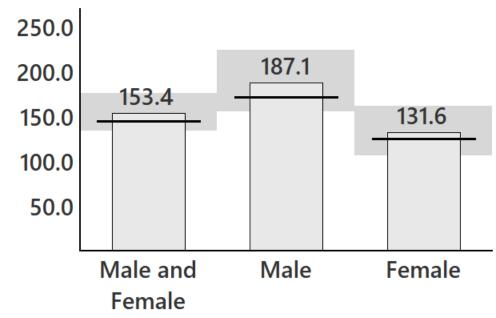
45

cancer deaths in Henry County

Cancer mortality rates in Henry County are **not different from the U.S. average** 

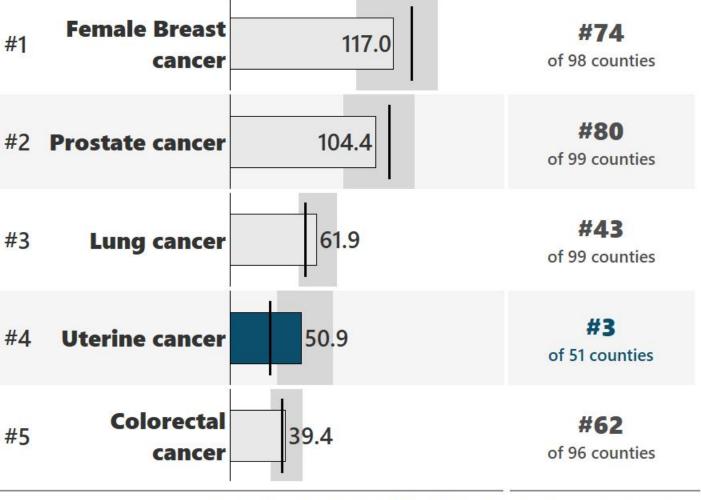
Ranks #44 of 99 counties

Cancer mortality rates are typically higher in men than women





# **Top cancers in Henry County**



Age-Adjusted rate per 100k, 2017-2021

Rank compared to other counties, where #1 is highest in the state



#### **#1** | Female Breast cancer

Each year in Henry County, there are about... **Henry County** 117.0 #2 136.9 Statewide #3 New Cases per year **United States** 129.8 **Henry County** 20.7 #4 17.8 Statewide **Deaths** per year #5 **United States** 19.2



Age-Adjusted Rate per 100,000 Incidence (2017-2021); Mortality (2018-2022)

#### What can you do to prevent breast cancer?







Physical Activity

Healthy Foods

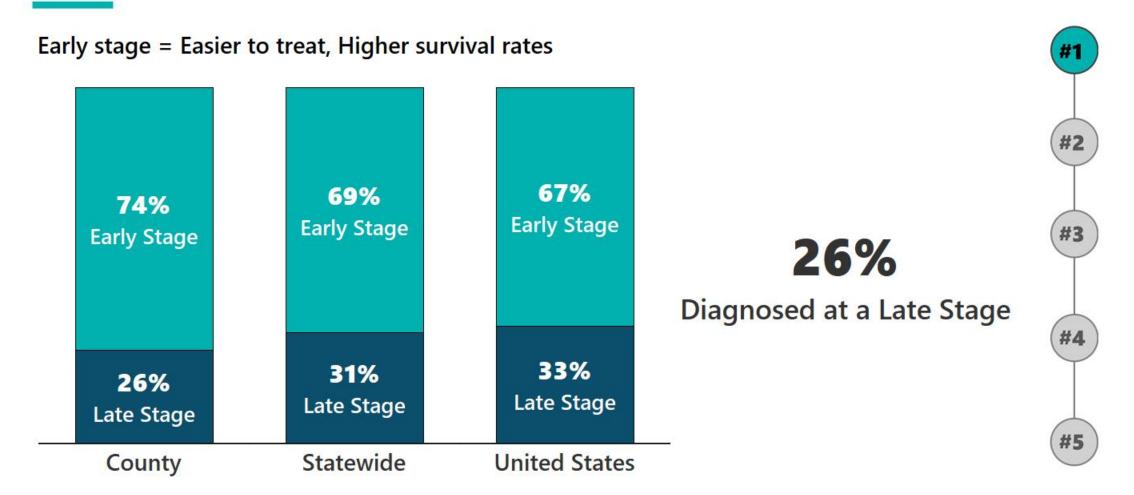




+ Get Screened!

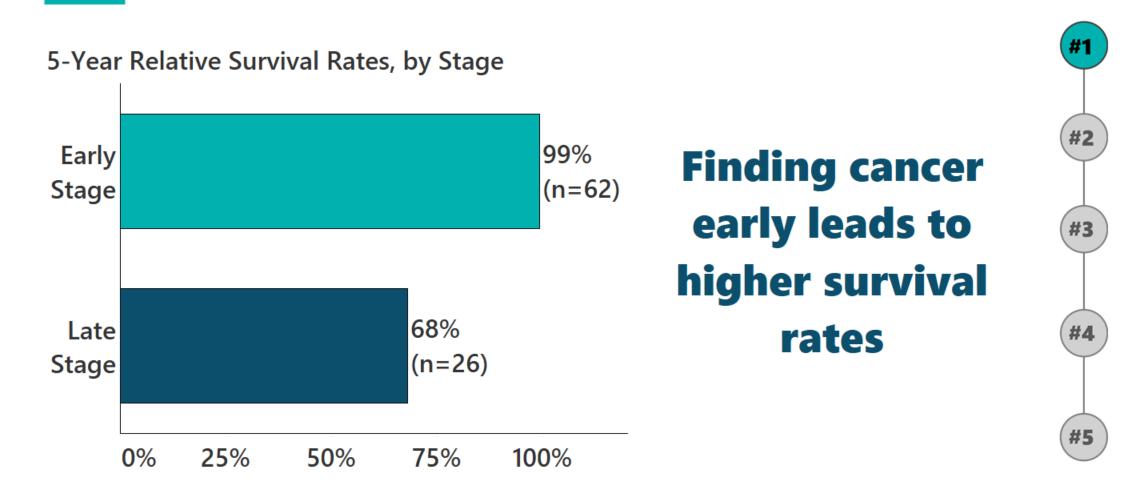


#### **#1** | Female Breast cancer Stage at Diagnosis





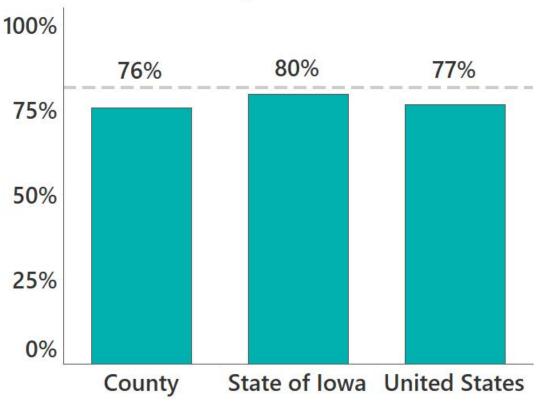
#### #1 | Female Breast cancer | 5-Year Survival





#### **Breast Cancer Screening**

Women age 50+ who are up to date with their breast cancer screening



#### **Screening Guidelines**

People with breasts ages 40-74 should screen with a mammogram every 2 years

Talk to your doctor if you have a family history of breast cancer



Data from 2022 BRFSS Goal: 81.4% by 2027

# The Care for Yourself – Breast and Cervical Cancer Program (CFY-BCC)

We provide free breast and cervical cancer screenings across lowa.

- ► CFY-BCC is also called the Iowa Breast and Cervical Cancer Early Detection Program.
- ► CFY-BCC serves Iowans between 21 and 64 years of age.
- ► Are at or earn less than 250% of the Federal Poverty Level.
- ► Call (866) 339-7909 to speak to a confidential coordinator immediately.
- ► CFY-BCC coordinators are available to help you Monday-Friday, 8:00 a.m. to 4:00 p.m.



https://hhs.iowa.gov/public-health/cancer/cfy

#### **#2** Prostate cancer

Each year in Henry County, there are about...





Age-Adjusted Rate per 100,000 Incidence (2017-2021); Mortality (2018-2022)

# What can you do to prevent prostate cancer?







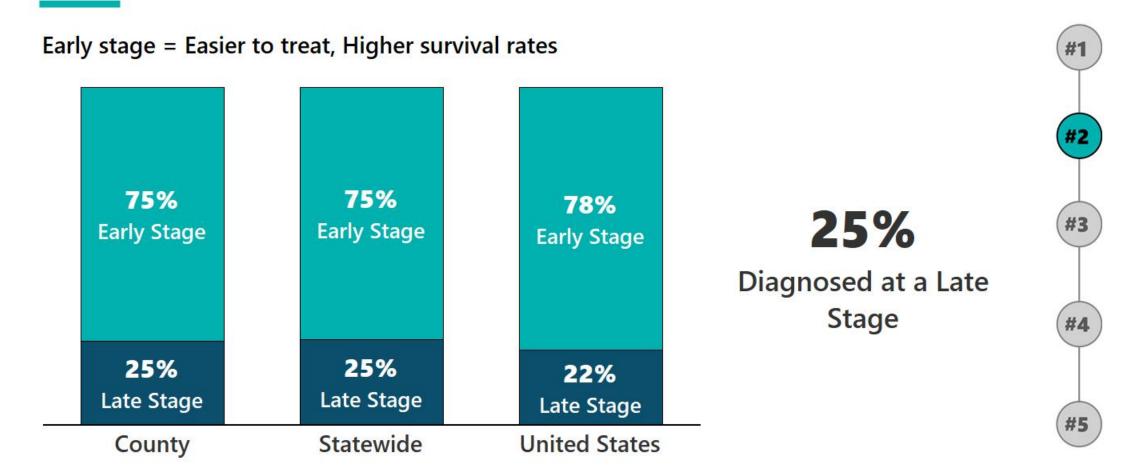






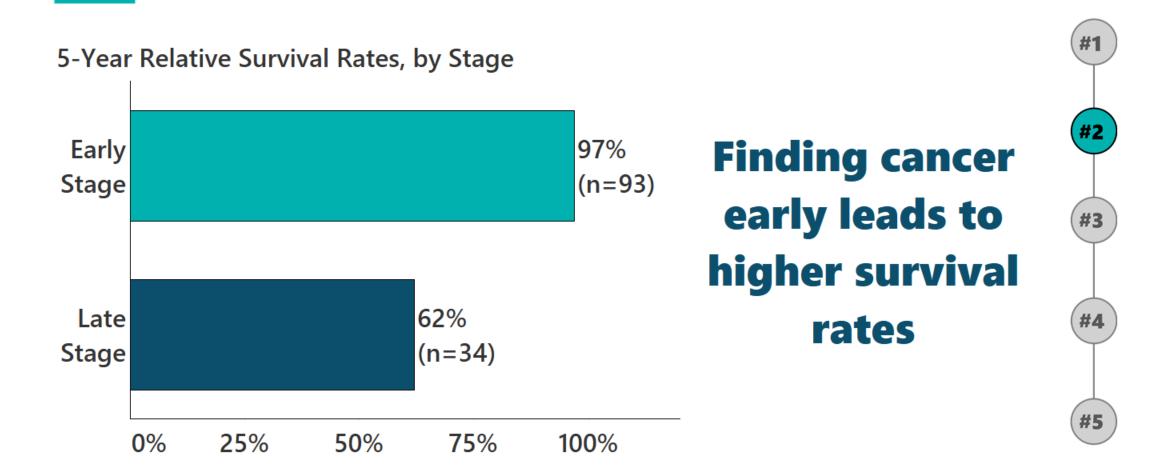


# **#2** | Prostate cancer | Stage at Diagnosis





# **#2** | Prostate cancer | 5-Year Survival





# **Prostate Cancer Screening**

## **Screening Guidelines**

Screening test: Prostate-specific antigen (PSA) blood test

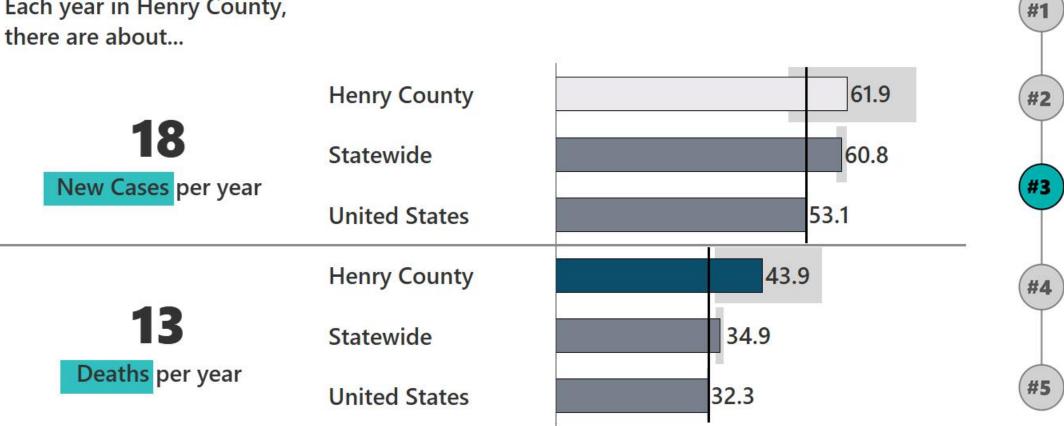
If you have a prostate and are 55-69 years old, discuss with your doctor if a PSA test is right for you

(U.S. Preventative Services Task Force)



# **#3** | Lung cancer

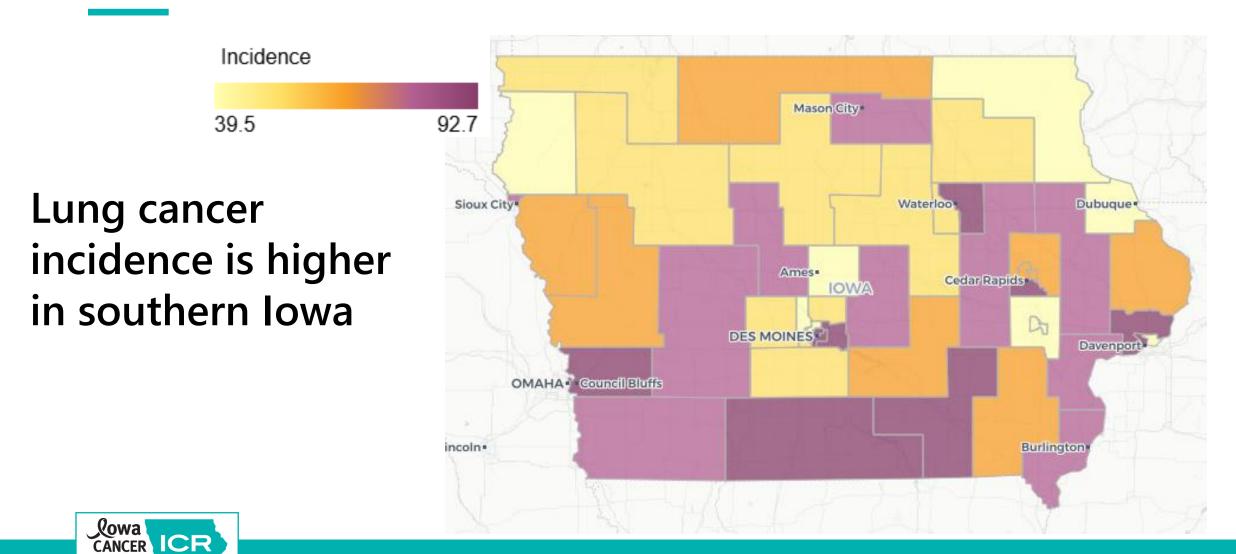
Each year in Henry County,





Age-Adjusted Rate per 100,000 Incidence (2017-2021); Mortality (2018-2022)

## Lung Cancer Incidence by Zones, 2015-2019



STATE HEALTH REGISTRY OF IOW

# What can you do to prevent lung cancer?





Test your home for Radon

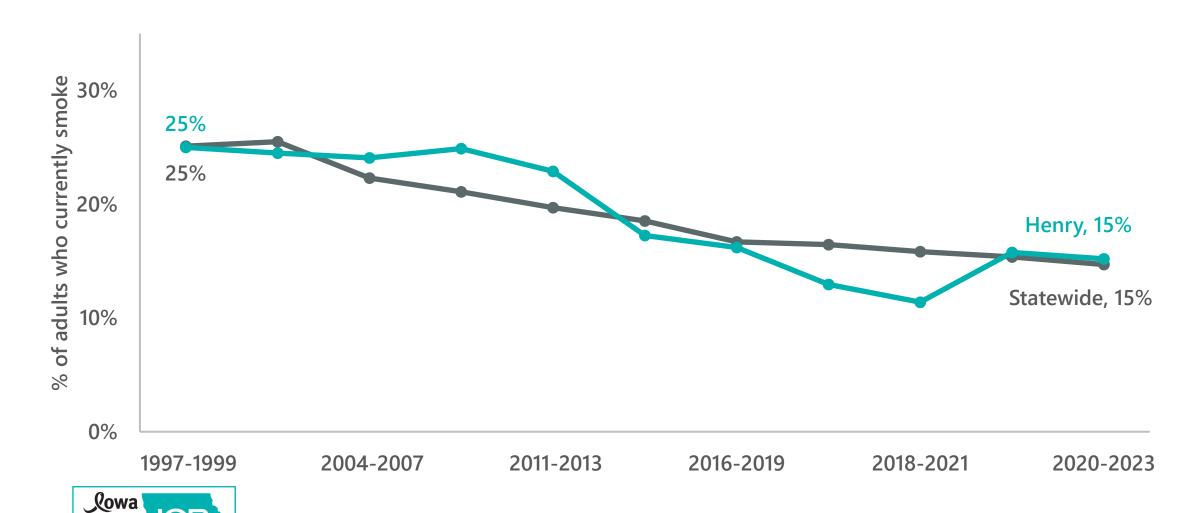
+ Get Screened!







# Percent of adults who currently smoke in Henry County



## What is Radon?

- Radon is an invisible, tasteless, odorless, radioactive gas
- It is naturally produced by radium and uranium in the soil
- Radon becomes harmful when it becomes trapped and concentrated in the air
  - For example, when it leaks into a basement through a crack in the foundation or a space around a pipe

Learn more about Radon testing and mitigation:

Iowa Health & Human Services <a href="https://health/radon">hhs.iowa.gov/radiological-health/radon</a>

Iowa Cancer Consortium <a href="mailto:canceriowa.org/radon/">canceriowa.org/radon/</a>

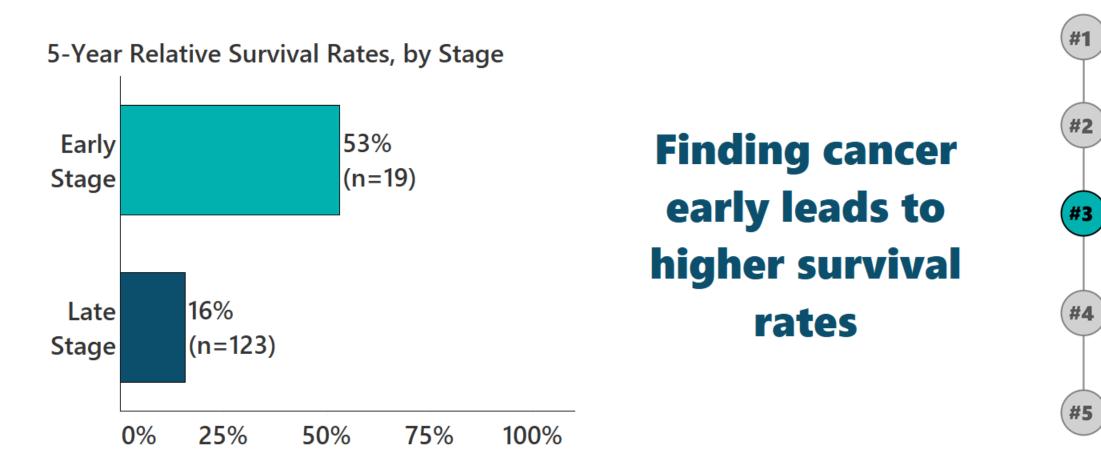


# **#3** | Lung cancer | Stage at Diagnosis

Early stage = Easier to treat, Higher survival rates #1 19% 24% 26% **Early Stage** #2 **Early Stage Early Stage** 81% (#3 81% Diagnosed at a Late 76% 74% Late Stage Late Stage Stage Late Stage #4 #5 County Statewide **United States** 



# **#3** | Lung cancer | 5-Year Survival



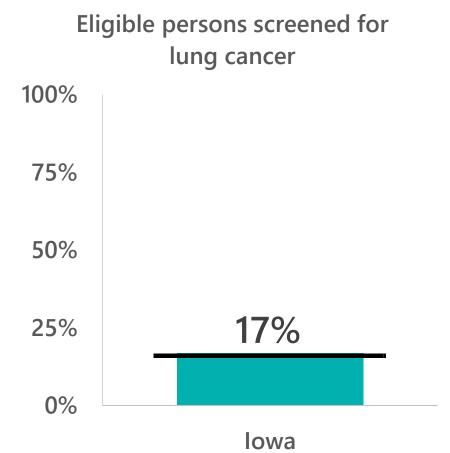


#2

#4

#5

# **Lung Cancer Screening**



#### **Screening Guidelines**

Lung cancer screening is a low-dose CT scan

If you have smoked in the last 15 years and are between the ages 50-80 years talk to your doctor about being screened for lung cancer

(U.S. Preventative Services Task Force)



# **#4** | Uterine cancer (Endometrial cancer)

Each year in Henry County, there are about... 50.9 **Henry County** #2 Statewide 30.3 New Cases per year #3 **United States** 27.8 **Henry County** \*Too few cases to show rates #4 5.2 Statewide **Deaths** per year #5 **United States** 5.2



Age-Adjusted Rate per 100,000 Incidence (2017-2021); Mortality (2018-2022)

# What can you do to prevent uterine cancer?



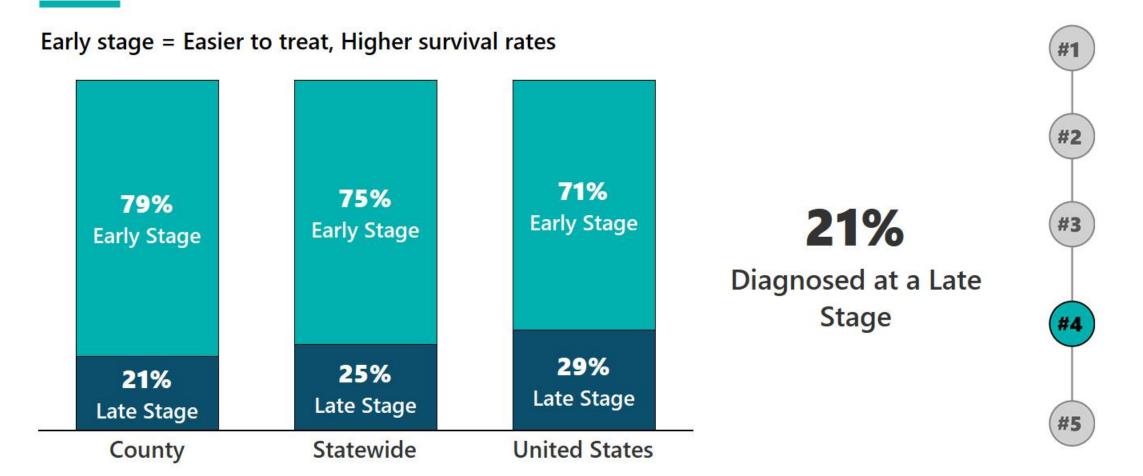


#### **Other Risk Factors**

- Taking estrogen-only hormone replacement therapy (HRT) after menopause
- Type 2 diabetes
- Polycystic ovary syndrome (PCOS)
- Family history of endometrial cancer
- Genetic conditions, such as Lynch syndrome and BRCA

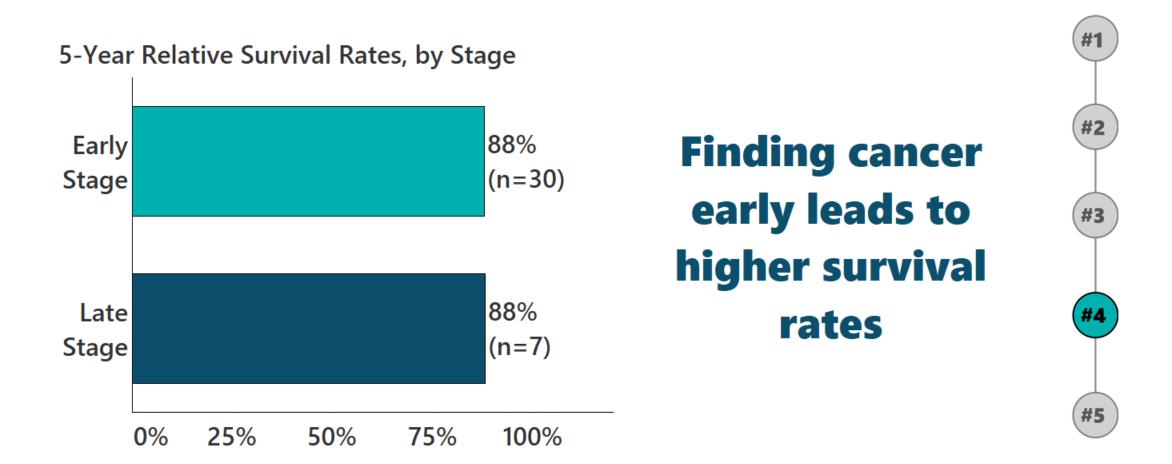


# #4 | Uterine cancer | Stage at Diagnosis





# #4 | Uterine cancer | 5-Year Survival





# Talk to your doctor if you experience...

- Vaginal bleeding or discharge not related to menstruation (periods)
- Vaginal bleeding after menopause
- Difficult or painful urination
- Pain during sexual intercourse
- Pain in the pelvic area



# **#5** | Colorectal cancer

Each year in Henry County, #1 there are about... 39.4 **Henry County** #2 39.9 Statewide New Cases per year #3 **United States** 36.4 **Henry County** \*Too few cases to show rates #4 Statewide 13.5 **Deaths** per year #5 12.8 **United States** 



Age-Adjusted Rate per 100,000 Incidence (2017-2021); Mortality (2018-2022)

# What can you do to prevent colorectal cancer?







Physical Activity

Healthy Foods



dy Smoking/ Tobacco

+ Get Screened!







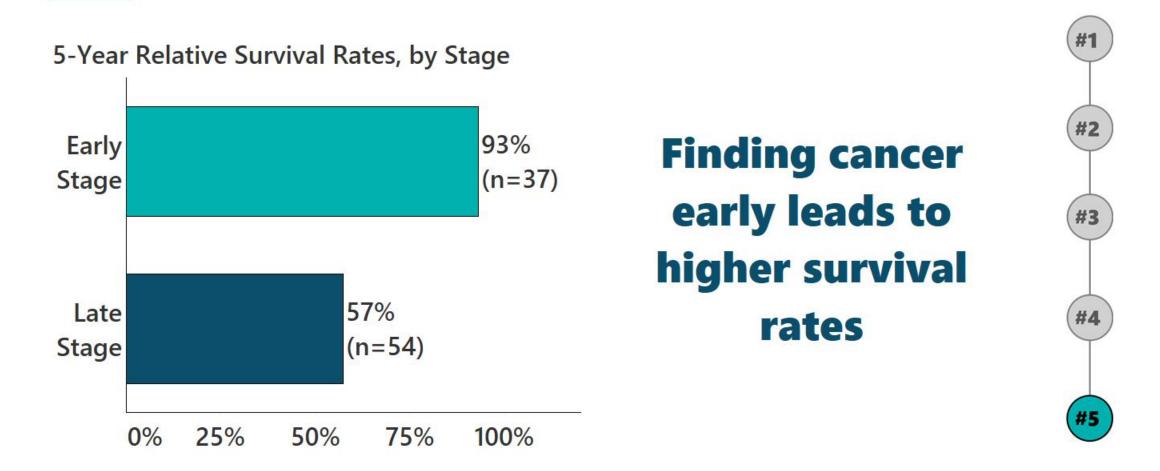


# **#5** | Colorectal cancer | Stage at Diagnosis

Early stage = Easier to treat, Higher survival rates 37% 40% #2 42% **Early Stage Early Stage Early Stage 58%** #3 Diagnosed at a Late Stage 63% 60% 58% #4 Late Stage Late Stage Late Stage (#5 County **United States** Statewide



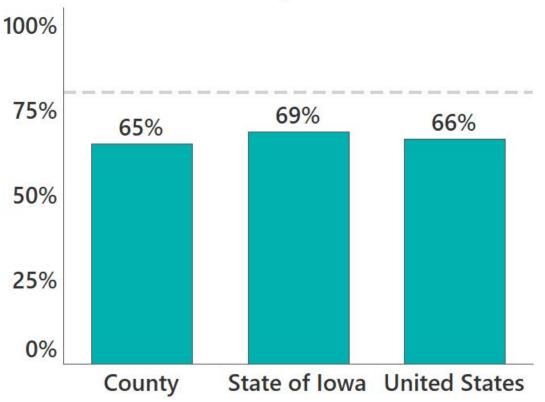
# **#5** | Colorectal cancer | 5-Year Survival





#### **Colorectal Cancer Screening**

Adults ages 45-75 who are up to date with their colorectal cancer screening



#### **Screening Guidelines**

Adults ages 45-75 can screen with either (1) an at-home, stool-based test, or (2) a colonoscopy.

Talk to your doctor about which is best for you.



Data from 2022 BRFSS Goal: 80% by 2027

#### **Iowa Get Screened (IGS): Colorectal Cancer Program**

We partner with Iowa's Federally Qualified Health Centers (FQHCs) and local public health agencies to increase colorectal cancer screening.

Through a collaboration with the Iowa Primary Care Association (Iowa PCA) and FQHCs, the program serves low-income Iowans, ages 45-75, to:

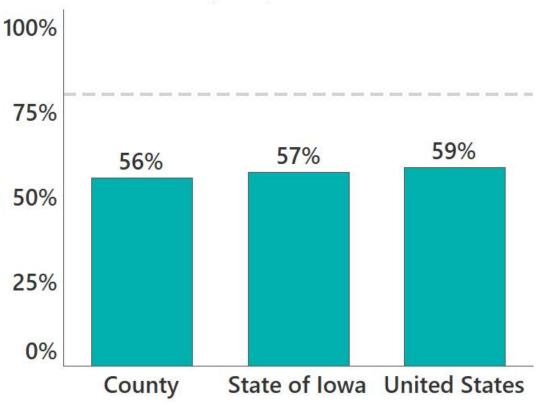
- ► Increase the number of cancers prevented
- ► Increase the diagnosis of early-stage colorectal cancer
- ► Reduce colorectal cancer incidence and mortality in the state



https://hhs.iowa.gov/public-health/cancer/colorectal-cancer-screening-program

#### A vaccine that prevents cancer: HPV

Adolescents ages 13-15 who have completed their HPV vaccine series (2022)

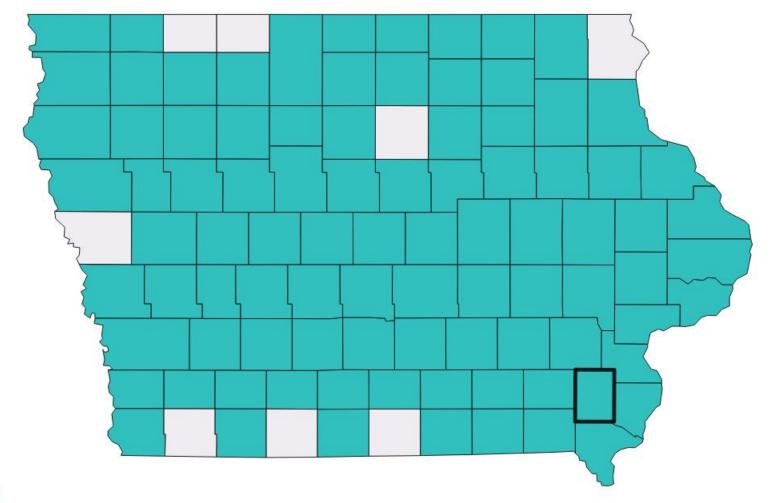


- HPV infection can cause cancers of the cervix, mouth and throat, anus, rectum, penis, vulva, and vagina.
- Iowa has the highest rate of oropharyngeal cancer in the U.S.
- Vaccine provides safe, effective, and lasting protection against HPV, thus reducing cancer risk
- Recommended at age 11 or 12 years, when immune response is best & before HPV exposure



Data from 2022 IHHS & NIS-Teen Goal: 80% by 2027

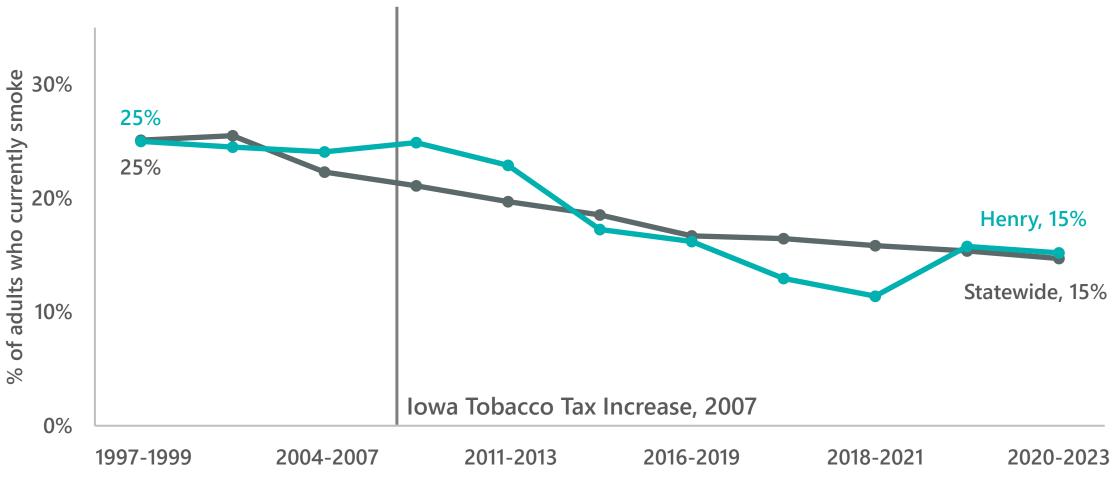
# After the last tobacco tax was passed in 2007, smoking rates decreased in 92% of Iowa counties





# After the last increase to the tobacco tax was passed in 2007, smoking rates decreased\* in Henry County

\* Determined by comparing data from 2004-2007 combined to 2011-2013 combined





# **Iowa's Report Card for Tobacco Control**



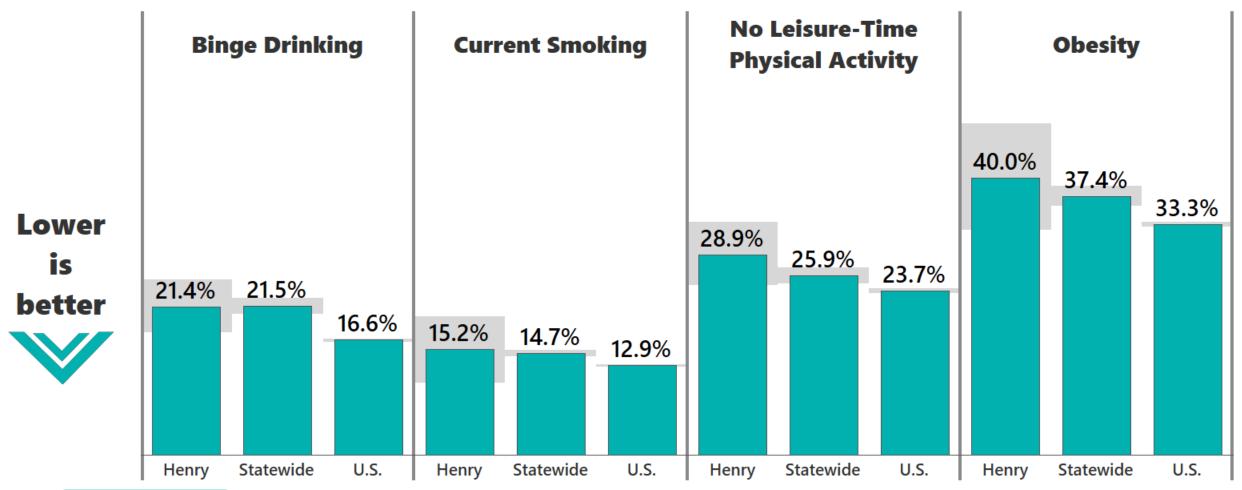
https://www.lung.org/research/sotc/state-grades/iowa

The American Lung Association calls for the following actions to be taken by lowa's elected officials to reduce tobacco use and exposure to secondhand smoke:

- Increase taxes on tobacco products;
- Include alternative nicotine products in the definition of tobacco products for tax and tobacco sales purposes; and
- 3. Close the loophole for casinos in the Smokefree Air Act.

Tobacco Prevention and Cessation Funding	Smokefree Air	Tobacco Taxes	Access to Cessation Services	Flavored Tobacco Products
F	В	F	D	F

#### **Other Cancer Risk Factors**





# **Resources** to help understand and address cancer in lowa communities

## **Iowa Comprehensive Cancer Control Program (CCCP)**

We work with partners to prevent cancer whenever possible and support cancer survivors across lowa.

- ► The CCCP partners with many organizations, including the Iowa Cancer Consortium, Iowa's cancer coalition.
- ► CCCP is involved in the revision and implementation of the Iowa Cancer Plan.
- ► Currently CCCP is focused on increasing HPV vaccination, increasing lung cancer screening, and supporting cancer survivors.

Photo from the Iowa Cancer Consortium, taken at the Iowa Cancer Summit

https://hhs.iowa.gov/public-health/cancer https://canceriowa.org/iowa-cancer-plan/



#### **lowa Cancer Consortium**

#### A non-profit cancer coalition that provides

- Connections and partnership
- Latest news and cancer updates via email
- Training and educational opportunities
- Grant opportunities and technical assistance
- Free cancer educational materials for distribution
- The Iowa Cancer Plan



#### Virtually-hosted workgroups include:

- Cancer Screening & Early Detection
- Health Equity
- HPV (w/ Iowa Immunizes coalition)
- Policy
- Radon
- Research & Clinical Trials
- Rural Cancer
- Quality of Life
- Cancer & the Environment Task Force



# Blueprint for cancer control, the *lowa Cancer Plan*

Chapters with sections that include priorities, strategies, and specific action steps which may be tailored to many settings to guide cancer control activities.

- 1. Health Equity: identify and eliminate cancer health disparities.
- 2. Prevention and Risk Reduction: whenever possible, prevent cancer from occurring.
- 3. Early Detection and Screening: promote the benefits of screening tests to ensure early diagnosis.
- **4. Diagnosis and Cancer-Directed Therapy:** reduce barriers to care, promote evidence-based practices, and encourage participation in clinical trials and other forms of research.
- **5. Survivorship and End-of-Life Care:** ensure resources to optimize quality-of-life for cancer survivors and their families.



## **Iowa Cancer Plan**

2023-2027



https://canceriowa.org/ iowa-cancer-plan/

# This is only the first step.

### **Recommended Actions**



#### **Iowa Cancer Plan**

Use to identify strategies aligned with community-specific needs

canceriowa.org/iowa-cancer-plan/





Engage American Cancer Society Cancer Action Network (ACSCAN) to promote cancer-relevant legislation

www.fightcancer.org



#### **lowa Cancer Consortium**

Connect for state-wide collaboration and potential community-level funding

www.canceriowa.org

#### Include cancer in needs assessments

Include cancer-relevant strategies in your hospital's community health needs assessments or public health department's needs assessment

hhs.iowa.gov/lphs/cha-chip



# **Every community is different**

#### Your expertise is key

- Your expertise as community members and leaders and local policy makers is key to answering the question of what to do next. You know best what your community needs and what will work.
- Cancer control partners like the Iowa Cancer Registry, the Iowa Cancer Consortium, Iowa HHS, and your local public health department can provide ideas, advise, and help find data, evidence, and other resources, but ultimately you are the experts.
- A good place to start is by **taking stock of the information presented today** and where the opportunities for change might be within your county, town, or organization. Use the lowa Cancer Plan for inspiration and reach out to the lowa Cancer Consortium for partnership in moving forward.



# **Henry County Resources**

#### Iowa Private Well Program

For more information about the Iowa Private Well program, contact

Mike Dawson, Environmental Health Specialist, at 319-385-1223 ext 1

or Bruce Hudson at 319-385-1223 ext 4 with Regional Utility Service System (RUSS).

# **Immunization Clinics**

Immunization clinics held for adults and children as apart of the Vaccines for Children program. HPV vaccines are available. Located at 106 N. Jackson St., Ste 103 in Mt. Pleasant

- Tuesdays 9-11
- Wednesdays/Thursdays 1-4
- 1st & 3rd Thursday 1-6pm at
- No appointment necessary
- Language interpretation available

#### **Oncology Services**

Henry County Health Center – Hematology & Oncology

319-385-6185

# Cancer in Iowa: 99 Counties Project Resource Guide

- Organizations and programs we presented today
- IHHS Programs
  - Tobacco Use Prevention and Control
  - Immunization Program
  - The Hepatitis Program
  - Radon
- Iowa Rural Health Association

#### In the next slides we will highlight...

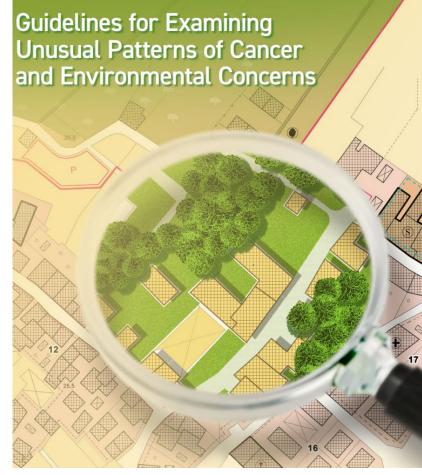
- Cancer Cluster Concerns
- Agricultural Health Study
- Environmental Exposures and Health Risks Fact Sheets
- Center for Health Effects of Environmental Contamination
- Iowa Private Well Grants Program
- Center for Energy & Environmental Education's (CEEE) Environmental Health Program





# What to do if you suspect a cancer cluster in your community

- If you are concerned about cancer excess in your area, please email us at <a href="mailto:ICR-CancerConcerns@uiowa.edu">ICR-CancerConcerns@uiowa.edu</a>
- We will ask you about:
  - Geographic area of concern
  - Cancer types diagnosed in the area
  - Time frame
  - Exposure(s) of concern
- If possible, ICR will conduct an analysis comparing the expected number of cancers to what's been observed
- A meeting will be held to discuss the results of the analysis and a written copy of the report will be sent to you





# **Agricultural Health Study**



The Agricultural Health Study (AHS) has been working for more than 30 years to understand factors that impact the health of farmers and their families.

- Includes over 31,000 private and 5,000 commercial pesticide applicators from Iowa
  - Study is also following applicator's spouses and children
- Linked with Iowa Cancer Registry data to study risk of developing cancer among pesticide applicators

The aim of this study is to understand how agricultural, lifestyle, and genetic factors affect the health of farming populations.

## **Environmental Exposures and Health Risks Fact Sheets**

#### These facts sheets include information on

- Cancer and non-cancer health risks for each environmental exposure
- How the exposures are regulated
- What you can do to limit your exposure

#### **Environmental Health Fact Sheets**

- Arsenic
- Atrazine
- Glyphoste
- <u>Nitrate</u>
- Radon



# NEW Environmental Exposures & Health Risks Fact Sheets





CHEEC

The University of Iowa Center for Health Effects of Environmental Contamination (CHEEC) supports and conducts research to identify, measure and study adverse health outcomes related to exposure to environmental toxins. CHEEC was established through the 1987 Iowa Groundwater Protection Act and has focused its efforts to date mainly on drinking water contaminants.

For questions about environmental contaminants, please contact Dr. Cwiertny at the email address below.



David Cwiertny
Director of CHEEC



# Iowa Private Well Grants Program Iowa Health & Human Services

Iowa's <u>Private Well Grants Program</u> (PWG) provides free water testing to all private well owners and users for the analytes listed. The Iowa DNR recommends that all private well owners have their water tested at least annually.

To get your private well tested, please contact your local county health department.

**County Health Department - contact list** 

- <u>Bacteria/coliform</u> (annually)
- <u>E.coli/fecal coliform</u> (annually)
- <u>Nitrate</u> (annually)
- Arsenic (every 3 years)
- Manganese (every 3 years)
- <u>PFAS</u> (requires pre-approval from the DNR)

Follow this QR code or the links below to learn more!



### Nitrate & Health Fact sheet



#### Introduction

Nitrate, a form of nitrogen, is a water-soluble chemical found at high concentration waterways and private wells (1, 2, 3). Nitrate is colorless and has no smell, so it is ur Health drinking water. Nitrate occurs naturally in the environment; however, applying nitro corn and other crop fields, and manure run-off from animal feeding operations can pollution in drinking water (2, 3). Nitrate can be reduced to nitrite and other compo shown to have negative health effects (1,5).

#### **Exposure Sources**

People are primarily exposed to nitrate through contaminated drinking water and b nitrate-containing foods, like processed meats (1, 4). Drinking water contaminated public health concern in Iowa due to the amount of nitrogen fertilizer used in agricu shallow wells being most at risk of high nitrate concentrations (3). Nitrate is the monitrogen entering Iowa streams because of its stability and water-solubility, potent downstream contamination of drinking water.

https://ehsrc.publichealth.uiowa.edu/communityengagement/ resources-information/

#### **Health Risks Associated with Nitrate**

# Cancer

The International Agency for Research on Cancer (IARC) classifies nitrate in food and water as "probably carcinogenic to humans" (1, 5). Studies conducted in Iowa have shown a positive correlation between exposure to nitrate in the drinking water and some cancers (1). Some studies conducted in Iowa have analyzed cancer risk at or above levels one-half the maximimum contaminant level (MCL) over long periods of time. From these studies, consistent associations have been discovered for colorectal cancer. Cancers at other sites have been less studied, however, positive associations have been found at levels below the MCL for cancers of the thyroid, ovary, and kidney (6).

#### Non-Cancer Health **Risks**

Methemoglobinemia, or Blue Baby Syndrome, is a condition in which not enough oxygen is transported in the blood to the body's tissues (3). Blue Baby Syndrome can occur when infants are exposed to nitrate levels higher than 10 mg/L. Elevated prenatal nitrate exposure in Iowa has also been connected to increased risk of birth defects, including spina bifida, limb deficiencies, and cleft palate (7,8).

#### How is Nitrate regulated?

- The EPA established the maximum contaminant level for nitrate to be 10 mg/L in drinking water, to protect infants against methemoglobinemia, or Blue Baby Syndrome (7, 9).
- Public water suppliers must test for nitrate and present results to consumers and the state through consumer confidence reports (3).
- Private wells are not required to be tested for nitrate, and those with water sourced from a shallow well, less than 50 feet, face a disproportionate risk of high nitrate exposure (3,10).

#### What can you do?

- Test well water for nitrate once a year if the well is privately-owned.
- Water purification methods that remove nitrate include reverse osmosis, ion exchange, and distillation. Using Brita filters, refrigerator filters, and boiling water are not effective at removing nitrate (7).
- Maintain a healthy diet rich in antioxidants and limited in processed, cured, and red meats (1). Published September 2024 Questions? Visit our website EHSRC.org

# Center for Energy & Environmental Education's (CEEE) Environmental Health Program

Highlighting upstream solutions to protect children, climate, and health.

The Environmental Health Program at the CEEE highlights upstream solutions that protect children, climate, and health, as well as raises awareness about the link between harmful chemicals and their impacts to both people and climate. Our initiatives focus on community practices and state strategies that significantly reduce lowan's exposure to common hazardous pollutants.

Contact Audrey Tran Lam for more information and resources about how to reduce environmental exposures that may contribute to cancer development.





# **CEEE Environmental Health Program Initiatives**

#### **Good Neighbor Iowa**

Aims to reduce unnecessary urban pesticide use and to transform lawn culture to encourage appreciation of diverse lawns as a way to protect child health, water quality, pets, pollinators, and biodiversity.

Good Neighbor Iowa is a statewide public health initiative that works with school districts, childcare centers, city parks, and homeowners to reduce harmful exposures in the community.

#### **Climate, Toxics, and Health**

An actionable, educational initiative dedicated to empowering individuals with knowledge about the intersection of toxic chemicals, fossil fuels, and human health.

Includes easy-to-use resources that outline specific actions that individuals can take to reduce environmental exposures (and carbon footprint!).

#### **Farming for Public Health**

A statewide initiative to build more understanding among healthcare providers and public health professionals about agricultural strategies that solve for a pattern of soil health, clean water, biodiversity, conservation, healthy food, rural economic vitality - collectively, public health.

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### Other initiatives in Iowa

# Understanding Cancer and Environmental Risk Factors in Iowa

A New Initiative from the Iowa Environmental Council and The Harkin Institute



The Harkin Institute and the Iowa Environmental Council are announcing the launch of a new initiative that explores the relationship between environmental risk factors and cancer rates in Iowa.



#### **Expert Panel**

UI Holden Cancer Center is bringing renowned national and international cancer experts together to investigate lowa's cancer rates



Holden Comprehensive Cancer Center

https://www.iaenvironment.org/our-work/cancer-and-environmental-risk-factors-in-iowa/

# **Main Takeaways**

Cancer is an important health issue facing your county

There are proven ways to prevent cancer & find it early You can avoid risk factors and get screened

Iowa has a strong Cancer Plan, resources, & organizations to help fight cancer

Policy changes at the local and state levels can have a huge impact!

Please communicate your concerns & needs with your state representatives and local policymakers

### And let us know how we can help!



# These slides will be posted

These slides will be posted to the Iowa Cancer Registry website: <a href="https://www.iowacancerregistry.org/99">www.iowacancerregistry.org/99</a>



If you have questions, please email us at <a href="ICR-99countiesproject@uiowa.edu">ICR-99countiesproject@uiowa.edu</a>

## Media

If you are a representative of the media and would like more information on this presentation or to speak with someone from the lowa Cancer Registry, contact <a href="mailto:ICR-Media@uiowa.edu">ICR-Media@uiowa.edu</a>.



If you would like to **share your thoughts** on this meeting, please participate in our brief survey. The QR code will direct you to the survey.

This brief survey should take no more than 5-10 minutes of your time.



