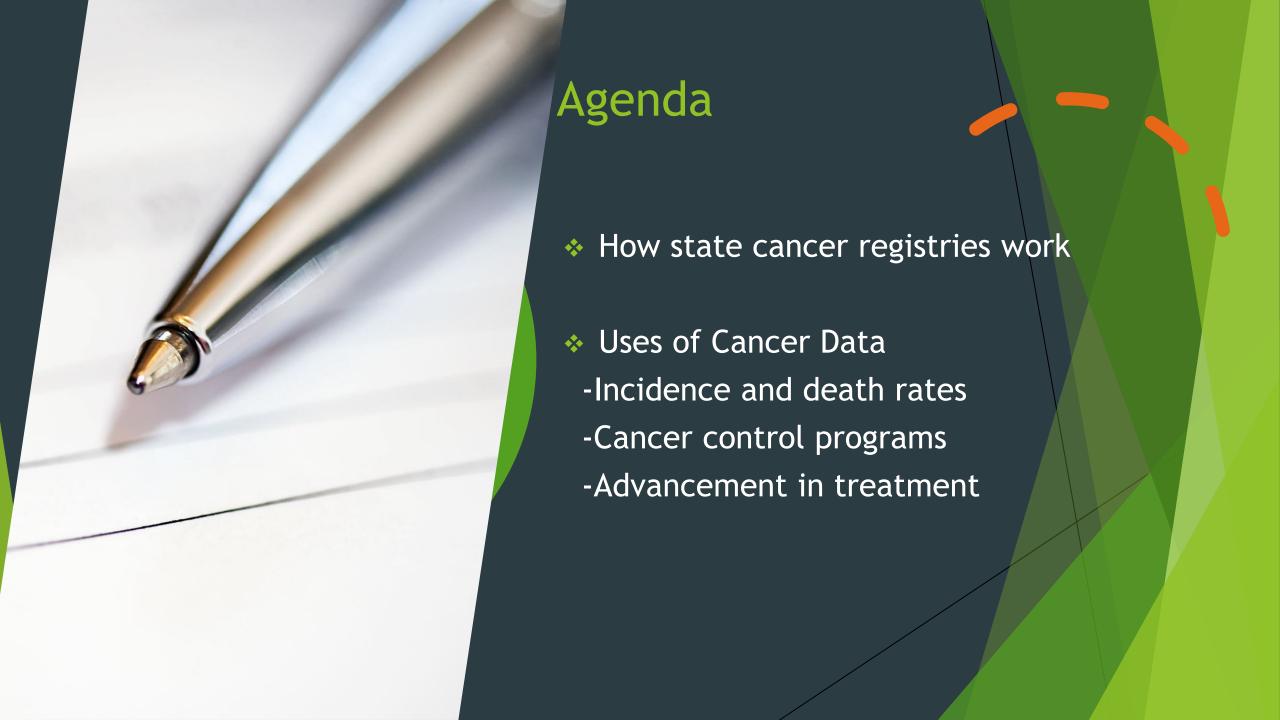
Central Cancer Registry reporting:
The bigger picture
By Sasha Raju
MBBS, MPH,ODS

April 30,2025







Test results come back with impression of tumor the size of a kidney

bean

She undergoes treatment of surgery, chemo, radiation and hormones The hospital cancer registry has the ODS entering the patient's cancer details and treatment in the computer and then it is sent to the State central cancer registry-FCDS

The Central cancer registry receives all cancer data from all hospitals within the state. They diligently process the batches, reviews the edits, makes corrections and completes each case

NPCR - and once a year the Central registry sends the Cancer Data to CDC.

Routine Mammogram



### **Uses of Cancer Data**

Provides cancer incidence and death rates

Explore cancer patterns within a given population

Creating cancer control programs - screening and the effectiveness of public health prevention efforts

Investigate patterns of cancer regimens and improve patient care

Help advance health services, epidemiological and Clinical research on Cancer

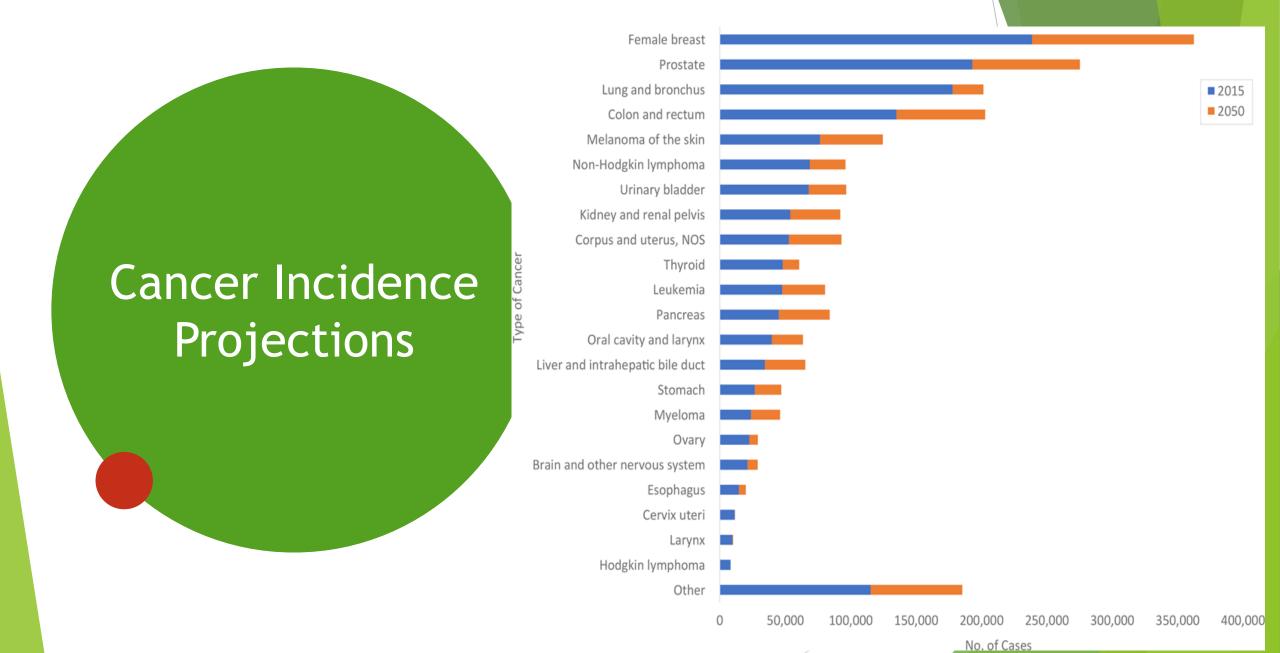
Cancer survivors' programs - programs, policies, education and infrastructure

Cancer data and drugs

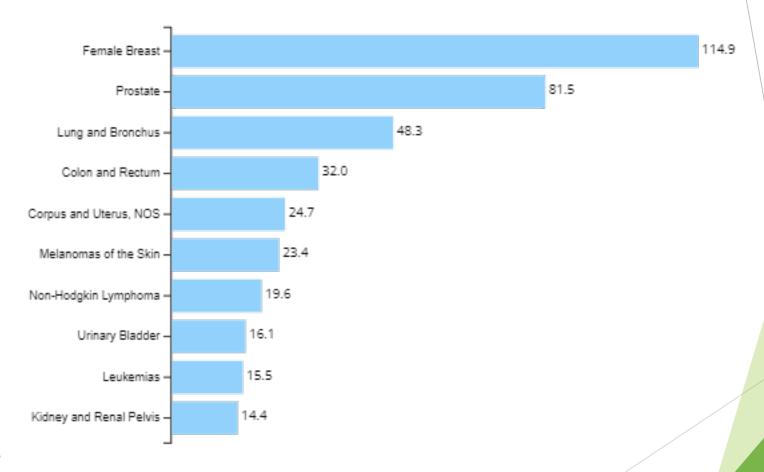
# Cancer incidence and Death rates

Estimated New cases in 2025	% of all new cancer cases
2,041,910	100%

Estimated Deaths in 2025	% of All Cancer Deaths
618,120	100%



# Top 10 Cancers by Rates of New Cancer Cases Florida, 2020, All Races and Ethnicities, Male and Female

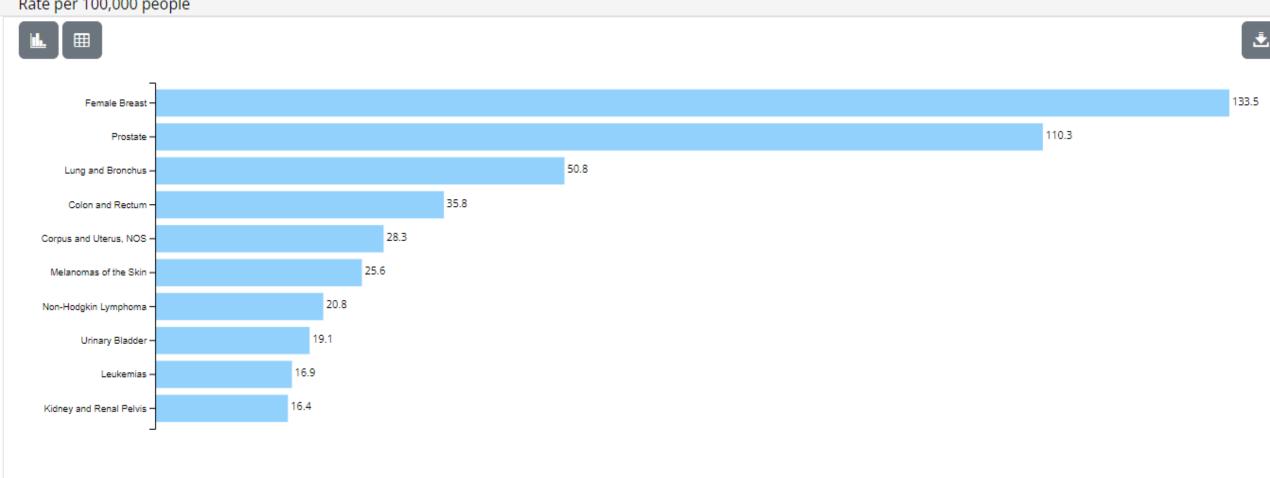


Rate per 100,000 people

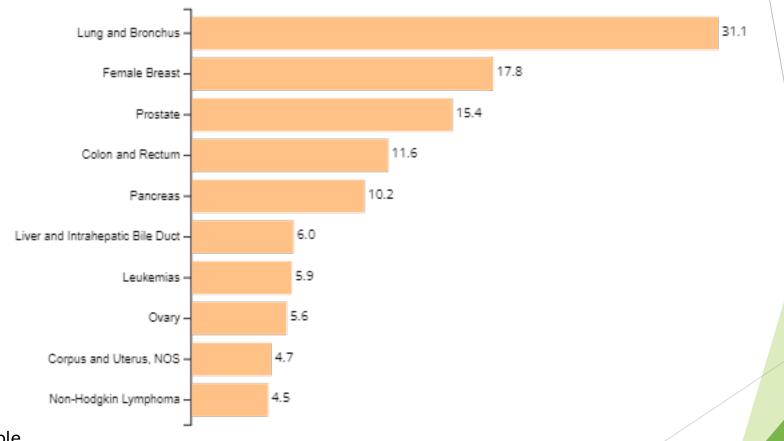
Source - U.S. Cancer Statistics Working Group. U.S. Cancer Statistics Data Visualizations Tool, based on 2022 submission data (1999-2020): U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; <a href="https://www.cdc.gov/cancer/dataviz">https://www.cdc.gov/cancer/dataviz</a>, released in November 2023.

#### Top 10 Cancers by Rates of New Cancer Cases

Florida, 2021, All Races and Ethnicities, Male and Female Rate per 100,000 people



# Top 10 Cancers by Rates of Cancer Deaths Florida, 2020, All Races and Ethnicities, Male and Female



Rate per 100,000 people

Source - U.S. Cancer Statistics Working Group. U.S. Cancer Statistics Data Visualizations Tool, based on 2022 submission data (1999-2020): U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; <a href="https://www.cdc.gov/cancer/dataviz">https://www.cdc.gov/cancer/dataviz</a>, released in November 2023.



# Explore Cancer Patterns within a Population

- Unusual cancer patterns detected within a community
- Rural and vulnerable populations any leading issues can be identified via cancer data
- The CDC can create a follow-up plan for the locations with unusual cancer patterns

# Example of Cancer cluster



In early 2025,6 nurses reported with benign brain tumors at Newton Wellesley Hospital in Massachusetts

The hospital had an in-depth investigation of possible environmental factors and ruled out those causes.

This investigation is still ongoing

### Cancer control programs

Breast and Cervical Cancer Early Detection programs

Colorectal Cancer control Program Improving Cancer genomic programs

Tobacco Control

Sun Safety programs

# National Breast and Cervical Cancer Early Detection programs

- Provides access to screening for cancer for women with low -income within the eligibility criteria of the program
- Minimum data Elements collected
- Helps cancer registries find potential missed cases and missing data on race

# Colorectal Cancer control Program

- Partner health systems like FQHC (federal qualified health centers will have More screening
- Creating provider and client reminder systems
- Assessment and feedback by the provider
- Stopping any sort of structural barriers to screening

# Improving Cancer genomic programs

- Support people who are at high risk of cancer based on inherited genetic factors that predispose some individuals to developing certain types of cancers
- Helps evaluate the burden of cancer based on inherited genetic factors
- Increase usage of genetic testing and counselling
- More awareness among providers about these services and improve access for these services for high-risk individuals

# Tobacco Control Program

- Air it out
- Clear Horizons
- Model smoking prevention program
- Partner in Quitting
- Spit Tobacco Intervention
- Teen Increasing Prevention services

#### TOBACCO-FREE FLORIDA

- Established an elaborate education on tobacco usage and prevention programs
- Provides ways to Quit
- Managing and Understanding the process of relapse and how to deal with it

# Sun safety Programs

- Appearance- focused skin cancer prevention intervention
- Go Sun Smart
- Sun Protection for Florida's Children
- Sunsafe
- Together for Sun safety



# Screening

Breast Cancer screening Cervical Cancer screening

Colorectal Cancer screening

Prostate Cancer screening

Lung Cancer Screening Endometrial Cancer Awareness

# Investigate cancer regimens and improve patient care

Better understanding of effective treatment regimens

Uptake of new therapies

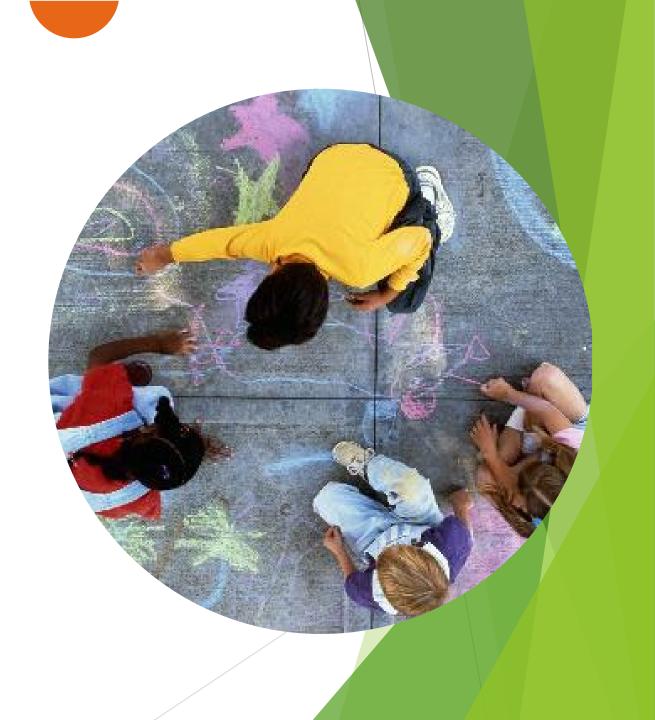
Impact of new treatment and evolving patterns of care

Increasing aggressive approach to Oligometastatic disease

Improved supportive care and additional salvage therapies

# Advancing Epidemiological, Health services & Clinical research

- Assessment of cancer burden
- Researchers can analyze the data by race/ ethnicity and sex
- Incidence trends for various cancer sites over time for specific geographic areas
- Advances in Health services (treatment, care and drugs)



# Cancer Survivorship programs-Strategies

Surveillance and applied research

Communication, education and training

Programs, policies and infrastructure

Access to quality care and services

# Cancer Drugs- Advancements

- •NCI's <u>Developmental Therapeutics Program (DTP)</u> provides free services and resources to the academic and private-sector research communities worldwide to facilitate the discovery and development of new anticancer agents, including targeted therapies that work through cancer's unique genetic alterations.
- •The NCI-60 Human Tumor Cell Lines Screen, which includes 60 human tumor cell lines representing nine different types of cancer, is a free resource available to the research community worldwide to evaluate compounds for anticancer activity.
- •The <u>Comparative Oncology Program</u> is a unique program that helps researchers improve the <u>assessment of novel therapies for humans by treating pet animals</u> with naturally occurring cancers.

# Understanding Treatment Response

- The <u>Acquired Resistance to Therapy Network (ARTNet)Exit</u>
   <u>Disclaimer</u> uses team science to study the mechanisms of acquired resistance to cancer therapies and disease recurrence.
- NCI contributes to the international <u>Human Cancer Models Initiative</u>define cancer pathways, determine mechanisms of drug resistance, and assess responses to small molecules.

# Improving Current Cancer Treatments

- NCI's first-of-its kind precision medicine trial called <u>Molecular Analysis</u> for Therapy Choice (NCI-MATCH) tested the effectiveness of treating tumors in adults and children based on matching targeted therapies to specific genetic alterations in the tumors, regardless of tumor type
- NCI's <u>Radiation Research Program (RRP)</u> provides expertise to investigators who perform radiotherapy studies and helps direct radiation research.
- Immunotherapy is a type of cancer treatment that helps cells in a patient's own immune system detect and eliminate cancer, including some difficult-to-treat tumors.

# Final tips & takeaways



Collect accurate and complete cancer data



Cancer data is used for many purposes -used for cancer control and epidemiological research, public health program planning, and patient care improvement

Dr. Donna Shalala, the former
Secretary of the Department of
Health and Human Services (and
former President of UM), noted:
"A national system of cancer
registries can help us understand
the disease better and use our
resources to the best effect in
prevention and treatment."

