

## Getting Started with Cancer Registry

Introduction to Cancer Data Collection

The ASCR is supported by Cooperative Agreement Number 1U58/DP003854-01 from the Centers for Disease Control and Prevention (CDC).

## Objectives

- What is Cancer?
- How Does Cancer Grow?

Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 2

## Objectives

- Types of Registries
- Central Registries
- Cancer Reporting Resources

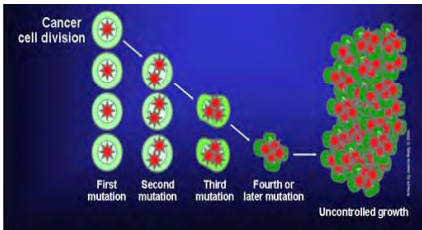
Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 3

## What is Cancer?

- Caused by a mutation in DNA
- Abnormal cells:
  - Divide uncontrollably
  - Invade normal body tissue
  - Can spread to other organ systems

Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 4

## What is Cancer ?

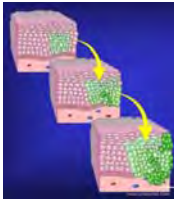


The diagram illustrates the multi-step process of cancer development. It starts with a single normal cell that undergoes 'Cancer cell division'. This leads to a 'First mutation', then a 'Second mutation', a 'Third mutation', and finally a 'Fourth or later mutation'. The final stage is 'Uncontrolled growth', where the cells form a large, disorganized mass.

Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 5

## How Does Cancer Grow?

- Abnormal rate
- Forms a tumor
- Tumors develop a blood supply
- The cancer grows and spreads



The diagram shows a cross-section of a tumor. It is a dense cluster of cells that has developed its own network of blood vessels (angiogenesis) to supply it with nutrients and oxygen, allowing it to grow and spread.

Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 6

## Why Report a Cancer?

- Mandated by the Federal Government (CDC)
- Reported in every state to a central cancer registry
- Data is compared on national and international levels

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

7

## Why Report a Cancer?

- Collected systematically for more than 50 years
- Cancer Registries Amendment Act of 1992
- CDC's National Program of Cancer Registries (NPCR)

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

8

## Why Report a Cancer?

- Alabama Statewide Cancer Registry Act (Acts 1995, No. 95-275, § 1.)
  - [www.adph.org/cancer\\_registry](http://www.adph.org/cancer_registry)
- Specific requirements are defined by each state

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

9

## Why Report a Cancer?

- Inform health professionals of cancer risks
- Focus cancer control activities in the state and nationally
- Monitor the occurrence of cancer
- Aid in research
- Promote education, prevention, and early detection

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

10

## Why Report a Cancer?

- Surgery
- Chemotherapy
- Radiation therapy
- Hormonal therapy
- Hematologic Transplant/Endocrine Procedures

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

11

## What is a Cancer Registry?

- What is a cancer registry?
  - A database where the collection of a uniform set of data items is recorded on all reportable cancer cases
- What is cancer registration?
  - A fundamental method whereby information is systemically collected about the occurrence of cancer

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

12

## Types of Registries


- Hospital-based registries
- Population-based registries

Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 13

## Types of Registries

Hospital – based registry

- Maintain data
- Focus on clinical care
- Usually COC accredited



Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 14

## Types of Registries

Hospital – based registry

- Single hospital registries
- Multi-institution registries

Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 15

## Types of Registries

Non-registry facilities


- smaller hospitals
- clinics
- physician offices
- pathology laboratories
- nursing homes

Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 16

## Types of Registries

Population - based registry

- Record all new cases in a defined population
  - geographical area such as a state
  - emphasis on epidemiology and public health
  - determine cancer patterns among various populations or sub-populations



Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 17

## Types of Registries

Other population - based registries

- Department of Defense cancer registries
- Incidence–only registries
- Survival registries

Lst Updated: 1/18/2013 Alabama Statewide Cancer Registry 18

## Types of Registries

### Population-based registries

- Cancer prevention
- Early detection
- Determination of cancer rates and trends
- Patterns of care and outcomes
- Research
- Evaluation of control efforts

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

19

## Role of a Central Registry

- The role of central cancer registries
  - Population-based registry collecting data on all cancer patients within a particular region
  - Information on trends
  - Occurrence
  - Outcomes

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

20

## Resources for Cancer Registries

- Resources for reporting cancer
  - Cancer registry software
  - Casefinding rules
  - Coding rules
  - Abstract completion
  - Transmission of data

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

21

## Summary

- What is Cancer?
- How Does Cancer Grow?
- Types of Registries
- Cancer Reporting Resources

Lst Updated: 1/18/2013

Alabama Statewide Cancer Registry

22