

The Connecticut Tumor Registry is a population-based resource for examining cancer patterns in Connecticut. The registry's computerized data base includes all reported cancers diagnosed in Connecticut residents from 1935 to the present, as well as follow-up, treatment and survival data on reported cases. All hospitals and private pathology laboratories in Connecticut are required by law to report cancer cases to the registry.

Improving Cancer Case Ascertainment

Enhancing methods of ensuring complete and accurate counts of cancer cases diagnosed in Connecticut



Mission Statement:

To protect and improve the health and safety of the people of Connecticut by:

Assuring the conditions in which people can be healthy;

Preventing disease, injury, and disability, and

Promoting the equal enjoyment of the highest attainable standard of health, which is a human right and a priority of the state.

Missed Cases by Source of Report

Endoscopy Ctr

Radiation Ctr

Hospital Trans

Path Audits

Source

Path Audits

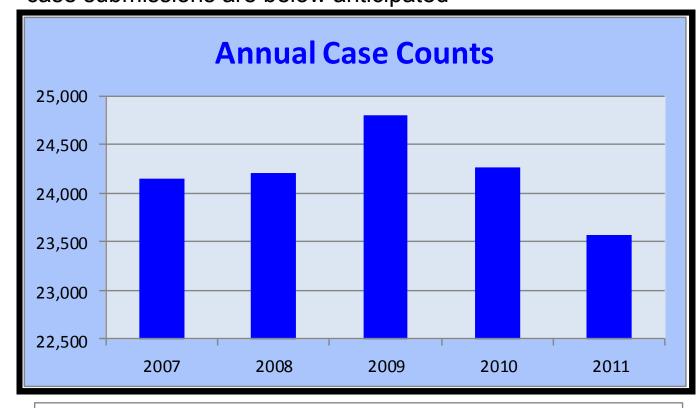
929

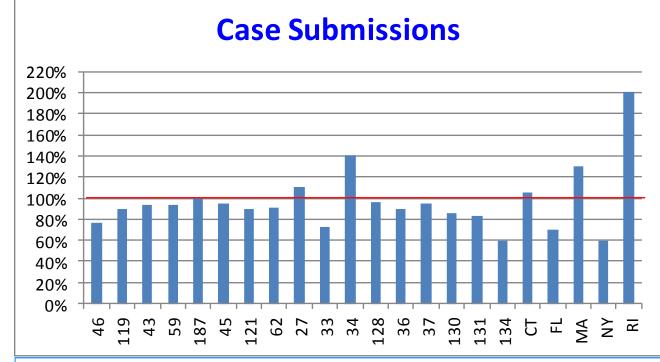
Plan

Improve the completeness of cancer case counts

1. Identify the Problem

Current annual cancer case count is less than predicted by estimates from the National Cancer Institute (NCI); source case submissions are below anticipated





<u>AIM Statement:</u> Identify 945 unreported resident cases diagnosed in 2011 by September 29, 2013 to reach NCI projected case count of ≥ 23,151 cases.

2. Assemble the Team

Annette Anderson

Diane Aye

Carline Clanton-Watkins

Eliza Cleaveland

Cathryn Phillips

Nancy Santos

Nahrain Youmara

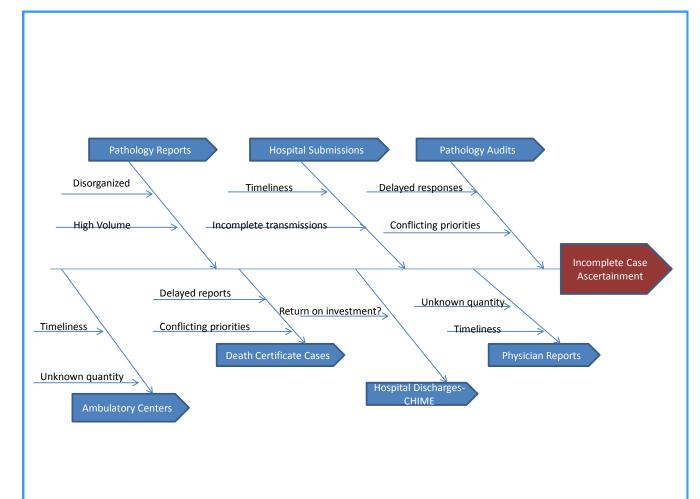
Technical Assistance:

Joan Ascheim

Susan Logan

3. Examine the Current Approach

Multiple sources for case reports; difficult to quantify and define challenges to timely reporting



4. Identify Potential Solutions

- Research and identify possible non-hospital case reporting sources
- ★ Identify cases possibly dropped during transmit between electronic hospital submission file and CTR receipt
- ★ Identify and compile pathology reports received electronically that do not have matching case reports
- Ascertain physician reporting of cancers diagnosed in the office and determine use of out-of-state pathology laboratories
- Match hospital discharge indices (CHIME) with existing case reports to investigate cancers diagnosed by methods other than tissue examination
- ∀alidate the usefulness of resource commitment to audit hospital casefinding procedures

5. Develop an Improvement Theory

- ★ Completeness will improve if all existing sources are validated for completeness;
- ★ Completeness will improve if new reporting sources are identified and report;
- ★ Completeness will improve if sources of non-tissue diagnosis are identified and report;*
- ★ Completeness will improve if current internal workflows are revised*

*Determined to be beyond project scope

Do

Test the Theory for Improvement

6. Test the Theory

- Survey ambulatory surgery, radiation and oncology centers to determine awareness of reporting requirements, and to determine use of diagnostic laboratory facilities
- ★ Survey physicians for laboratory referrals
- Match hospitals' annual case listing against cases received by the CTR (electronic linkage)
- * Assess/validate benefit of hospital pathology casefinding audits
- ★ Analyze workflow of electronic pathology reports*
- ★ Assess potential benefit of matching CTR cases with hospital discharge indices*

*Determined to be beyond project scope

Ambulatory Treatment Center Survey:

- 3/37 read slides in-house (8%) not previously reported

 ★ 3/37 read slides in-house (8%) not previously reported

 ★ 3/37 read slides in-house (8%) not previously reported

 ★ 3/37 read slides in-house (8%) not previously reported
- 31/34 specimens read in Conn. (91%)

 31/34 specimens read in Conn. (91%)

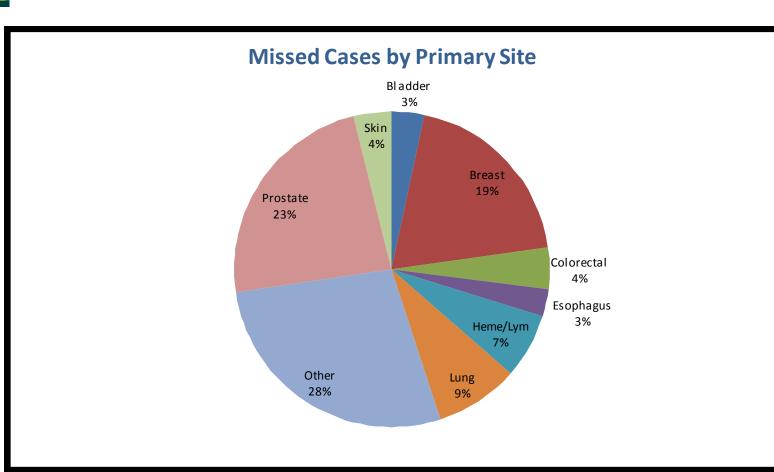
Physician Practice Survey:

- ★ Physician referral of specimens to 10 out-of-state labs
 ascertained

Study

Use Data to Study Results of the Test

7. Study the Results



Connecticut Tumor Registry, Hartford, CT

Telephone: 860-509-7163

Primary Reasons for Missed or Delayed Cancer Case Reports:

Hospital Trans

735

Radiation Ctr

189

Endoscopy Ctr

- ★ Overlooked hospital pathology cases (missed reports)
- ★ Incomplete transmission of hospital electronic files to CTR
- ★ Cases diagnosed at out-of-state laboratories not reporting
 to the CTR
- ⋈ Primary site of cancer does not appear to effect reporting

Substantially Valuable QI Project!

- New case reports represent 8% of total cur-rent annual cancer case count

Act

Standardize the Improvement and Establish Future Plans

8. Standardize the Improvement or Develop New

Adopt:

- Annual match of electronic hospital case reports to cases received by the CTR
- Establish protocol to identify and report non-hospital treatment center cases
- Survey physician specialty groups
- ★ Continue casefinding audits

Adapt:

- Provide more detailed case receipts: add totals by diagnosis year
- Establish reporting timetables for hospital case reports

9. Establish Future Plans

- ⊮ Pursue matching hospital discharge indices (CHIME) to CTR cases
 - Investigate benefit of exploring identification of nontissue diagnoses
- Analyze and improve electronic pathology report case matching

