

Sequence of Cancer Surveillance Data Flow

Data Collection Sources

Hospitals, clinicians, pathologists, and others

Case Consolidation at Population-Based Central Registries

Active follow-up by registry personnel with hospitals, physicians, patients, families

Passive follow-up via linkages with state mortality records, NDI, SSA, CMS

Racial/ethnic identification

Data Compilation by Population Registries or National Programs

Incorporation of CMS records, mortality data from NCHS, U.S. Census Bureau

Quality improvement

Data Dissemination and Analysis

Publicly accessible publications and reports, press releases, Web sites

Database development (e.g., public-use analytic file, SEER-Medicare linked database, SEER-NLMS)

Primary Data Collection

Data Compilation

Data Dissemination and Analysis

NDI – National Death Index
 SSA – Social Security Administration
 CMS – Centers for Medicare & Medicaid Services
 NCHS – National Center for Health Statistics
 NLMS – National Longitudinal Mortality Study

This diagram illustrates the temporal sequence of cancer surveillance, which begins with primary data collection and proceeds through a complex process to data dissemination and analysis. This process is a result of the SEER Program's collaboration with many organizations.

SEER Education and Training Programs

The SEER Registries offer various training resources for cancer registrars through the SEER Web site. These resources include self-instructional manuals for tumor registrars, and training for Multiple Primary and Histology Coding Rules. For more information, visit SEER's training Web site at <http://seer.cancer.gov/training>.

Publications

The SEER Program produces publications that include cancer statistics and address health disparities. These publications can be viewed at <http://seer.cancer.gov/publications> (for reports/monographs) and <http://seer.cancer.gov/registrars> (for education/training manuals).

For more information, contact:

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Data Flow in NCI's SEER Registries

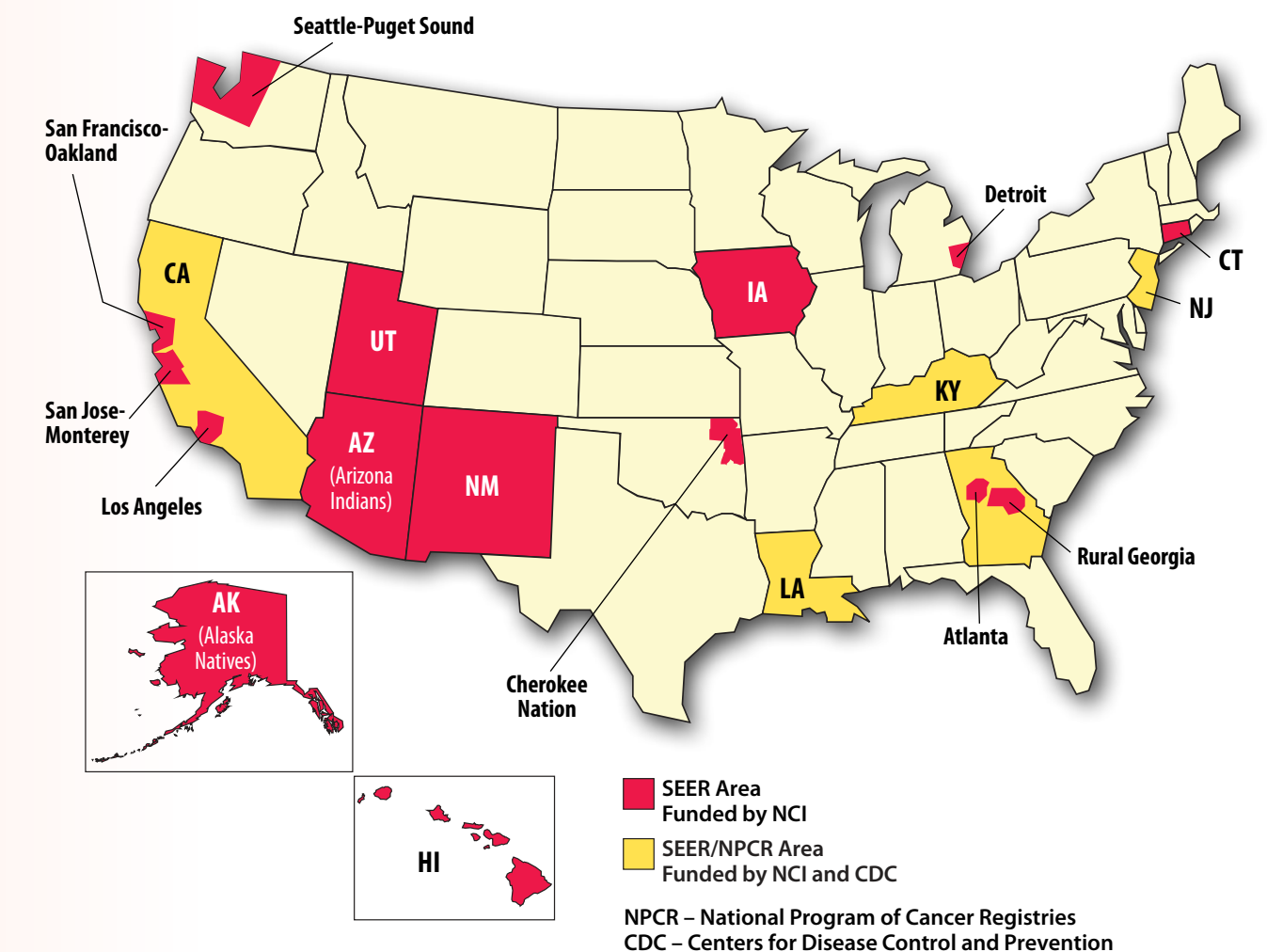
www.seer.cancer.gov



The National Cancer Institute's (NCI) Surveillance, Epidemiology, and End Results (SEER) Program registries are among the most accurate and complete population-based cancer registries in the world. The SEER Program is comprised of 18 cancer registries, including state, central, metropolitan, and the Alaska Native registries. Together, they gather data from approximately 28 percent of the U.S. population.

SEER Program registries collect data from 18 geographic areas across the United States. There are 10 state registries (Connecticut, Georgia, Greater California, Hawaii, Iowa, Kentucky, Louisiana, New Jersey, New Mexico, and Utah), five metropolitan area registries (metropolitan Atlanta and rural Georgia; San Francisco-Oakland and San Jose-Monterey; Los Angeles; Seattle-Puget Sound; and Detroit), and three Native American registries (Alaska Native Tumor Registry, Arizona Indians and the pilot Cherokee Nation Cancer Registry). The primary objective of the SEER Program registries is to maintain high-quality population-based cancer reporting systems and use these systems to collect cancer-related data.

The SEER Program registries routinely collect data on patient demographics, primary tumor site, tumor morphology and stage at diagnosis, first course of treatment, and follow-up for vital status. The SEER Program is the only comprehensive source of population-based information in the United States that includes stage of cancer at the time of diagnosis and patient survival data.



Data Flow in NCI's SEER Program Registries

This diagram depicts the flow of information through the SEER Program registries. Initially, the SEER Program's central cancer registry receives cancer-related data from local sources, including hospital registries, pathology laboratories, and physicians' offices. SEER performs active follow-up of patients for vital status through these sources. Additional information and follow-up data are received passively by linking with other organizations, such as the Social Security Administration, state vital records departments, the National Death Index, and the Centers for Medicare & Medicaid Services.

The SEER Program's 18 cancer registries are responsible for consolidating and validating data and for removing all personal identifiers (e.g., name, social security number, address, date of birth). Once this information has been removed, data are sent to SEER on a regular basis (at least annually), where they are combined with other data and stored in a central database. NCI then disseminates these datasets to researchers and the general public via fact sheets, reports, limited-use databases, analytical software (i.e., SEER*STAT or SEER*PREP), and Web sites (e.g., <http://www.seer.cancer.gov>).

