NAACCR
North American Association of
Central Cancer Registries

Instructions for Users of CINA Plus in SEER*Stat

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1. General Information

1.1 Contact Information for Questions on CINA Plus

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1.2 Purpose of the Instructions for Users

NAACCR has compiled information that will be useful to you in understanding the contents of NAACCR's data file, Cancer in North America (CINA) Plus. This document describes who to contact with questions about the file, nuances about using the file and the variables included, some of which might be unique to cancer registries in general or to one or more of the cancer registries in particular.

Every user must be familiar with SEER*Stat to ensure accurate analyses. Every user should be familiar with cancer statistics to prevent potential embarrassment in misinterpretation of cancer data. It can be useful for investigators to consult the NAACCR Uniform Data Standards, Volume II, Data Standards and Data Dictionary, which is available on the NAACCR website.

1.3 NAACCR Registry Certification Criteria

To be included in the CINA Plus database, registries must meet NAACCR Gold or Silver certification standards for all five years of data included in CINA Plus at the time of file submission in December.

Criteria	**Certification Criteria Standard**	**CINA Plus Minimal Inclusion Standard:**
Completeness	90% Silver 95% Gold	Silver
% Passing EDITS	97% Silver 100% Gold	Silver
Death Certificate Only Cases	<=5% Silver <=3% Gold	Silver
Timeliness	Received by December due date (Within 23 Months)	Timely submission
Duplicate Reports*	<=2/1,000 Silver <=1/1,000 Gold	Silver
Missing Data Field Sex, Age, County	<=3% Silver <=2% Gold	Silver
Missing Data Field Race	<=5% Silver <=3% Gold	Silver

CINA Plus is updated annually in May. The file includes the most recent five years of data that are available. Registry-specific metrics are summarized in Appendix C of the most recent *Cancer*

Incidence in North America publication, which can be found on the NAACCR web site at http://www.naaccr.org.

1.4 Issues of Data Quality of CINA Plus

It is important for investigators to be aware that while registry certification is an important achievement for a population-based registry, it measures suitability of the incidence data for calculation of standard incidence statistics by cancer site, sex, age, and race. The metrics involved in determining registry certification status are stringent for that purpose, and yet they do not necessarily measure the fitness of the data to address other surveillance questions (e.g., cancer burden by ethnicity) or to address the myriad of research questions that will be asked of the data set.

Further, we expect that the more the database is used, the more data errors may be found. Thus the database will become better in future years through iterative use and data correction. Registries are committed to continual improvement of their data and investigators can help to that end by providing information about how the quality of the data affected their analysis.

1.5 Data Citation

NAACCR requests that all investigators use the following data citation or a similarly worded statement that includes all the points relevant to their research report or paper:

The cancer incidence data for {*insert the appropriate year range*} used in this study were provided by the North American Association of Central Cancer Registries (NAACCR). All NAACCR member registries receive state, provincial or territorial support. In the U.S., they also participate in the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program or the Centers for Disease Control and Prevention's National Program of Cancer Registries (NPCR) or both. In Canada, all registries submit data to the Canadian Cancer Registry maintained by Statistics Canada. Data are included from registries that met the NAACCR criteria for high quality incidence data and consented to the use of their data for this study.

2 File Information

2.1 Potential List of Registries Included in CINA Plus 1999-2003

A list of registries that met the inclusion criteria for the most recent available five-year period and consented to the use of their data in CINA Plus in SEER*Stat is available on the NAACCR web site.

2.2 Variables Included in the NAACCR CINA Plus Standard File

Definitions of some variables change as medical information and technologies change. To verify a definition, or the time period for which the definition applies, you need to refer to the NAACCR Uniform Data Standards Volume II: Data and Data Dictionary. This document can be found on the NAACCR website at: http://www.naaccr.org

Table 1. Data Variables and Codes Available in the CINA Plus Standard File

Data Item Number	Item Name	Grouped? Item Precision
20	Patient ID Number	No, as reported
80	Addr at DX--State	FIPS code for province, state, or territory
220	Sex	Male and Female
230 (19 age groups)	Age at Diagnosis	0, 1-4, 5-9,…85+
390	Date of Diagnosis	YYYY
400	Primary Site	SEER Site Groups and Topography Codes
160	Race 1 (U.S. Only)	White, black, other
191	NHIA v2 Derived Hisp Origin (U.S. Only)	Hispanic, non-Hispanic white, non-Hispanic black

2.3 Cautionary Notes

The NAACCR Hispanic/Latino Identification Algorithm, version 2.1 (NHIA v2.1) is a method used by all cancer registries in the United States to enhance identification of persons of Latino heritage diagnosed with cancer. Information describing the NHIA v2.1 algorithm is available on the NAACCR website. All investigators should be cautious in their interpretation of these data because in areas with small Latino populations, methods to indirectly identify Latinos can overestimate the ethnicity-specific counts of cancer cases. Also, even small errors in population estimates of Latinos can affect the magnitude of the cancer rates.

This file contains incidence data for both state and SEER metropolitan areas. NAACCR registry is required in either the Selection or Table tab. Caution should be used when selecting overlapping registries to avoid the double counting of incident cases.

2.4 For Canadian Registry Research

Canadian registries do not collect information on race or ethnicity.