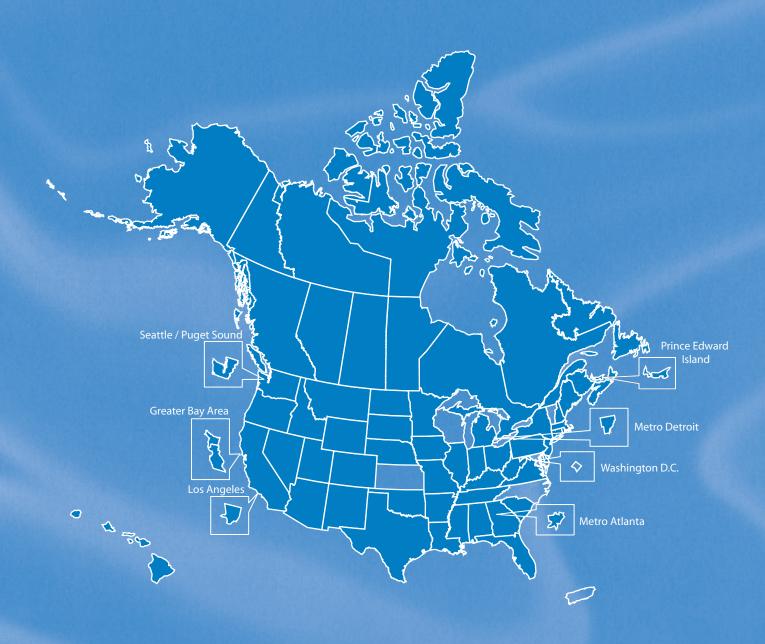
# Cancer in North America: 2001-2005 Volume Two: Registry-specific Cancer Incidence in the United States and Canada





#### EXECUTIVE SUMMARY

Members of the North American Association of Central Cancer Registries, Inc (NAACCR) participate voluntarily in an annual call for data to develop a multi-registry, aggregated data resource for cancer surveillance and research. In May 2008, NAACCR releases the monograph, *Cancer in North America (CINA), 2001-2005*, marking the 18<sup>th</sup> annual publication of cancer incidence statistics for the United States and with the Canadian expansion of the organization in 1992, the 16<sup>th</sup> for incidence statistics for Canada and North America.

This year, the monograph is organized into three volumes. Volume One presents the aggregated cancer incidence data from high quality registries in the United States and Canada. This year, less than 50% of the Canadian population is represented by provincial registries, and thus incidence statistics for Canada and North America are suppressed. The cancer incidence statistics for the United States are also described by race and Hispanic/Latino ethnicity. Volume Two describes the registry-specific cancer incidence rates by cancer site, sex, race, and ethnicity for all NAACCR members in good standing that submit data and elect to be included in the monograph (only the states of Kansas, North Carolina, Maryland, Vermont, and Wisconsin chose not to be included). Volume Three presents the registry-specific, cancer death rates by cancer site, sex, race, and ethnicity. Volumes One and Two are available in print, however, to minimize the use of our natural resources, Volume Three, population data, supporting Appendices, and cancer rates age-adjusted to the World population standard are only available electronically at the NAACCR website. In addition, site-specific bar graphs comparing rates by sex and race across all registries are also available online.

In addition to publication of cancer statistics for the most recent five-year period, the CINA data resource is used to create an online database (CINA+ Online) for public queries regarding cancer incidence for the most recent five years and to develop a discretionary research data set (CINA Deluxe), including data from 1995 to 2005, to facilitate analytic studies conducted by epidemiologists and other qualified researchers. During the last year, we expanded the uses of this data resource to include an electronic reproduction of all cancer statistics reported in the CINA monograph for use in SAS analytic software and a discretionary data set of the data in CINA+ Online (named CINA Plus in SEER\*Stat) in SEER\*Stat software for approved uses by NAACCR members. These preeminent cancer data resources are unparalleled in geographic scope, timeliness of statistics, and assurance of standardization of information and data quality across all contributors, with standard data quality metrics reported for all contributors.

Data are submitted in December of each year and the CINA monograph is released within five months. The other *CINA* products follow, with releases within two additional months. Information Management Services, Inc., serving as the statistical analytic unit, executes the processing of the data submissions. The production of the monograph is conducted by an editorial board of NAACCR volunteers, who devote significant time to design layouts, review data submissions and data tables, and ensure that definitions, statistics, and all other information are accurate. Without the contribution of their knowledge and skill, *CINA*, 2001-2005, would not have been possible. The 2008 Editorial Board was: Rana Bayakly (Georgia); Glenn Copeland (Michigan); Rick Firth (IMS); Holly L. Howe (NAACCR); Andrew Lake (IMS); Melinda Lehnherr (Illinois); David Roney (IMS); Antoinette Stroup (Utah); and Xiao-Cheng Wu (Louisiana Tumor Registry).

We hope that *Cancer in North America*, 2001-2005, with the companion *CINA* products and resources, facilitate studies of cancer burden, so that we are better able to identify and understand appropriate and important measures to control the myriad diseases within the cancer rubric. We want to provide the best information to create the most effective cancer control and prevention programs, to identify population disparities, and to develop the best policies that will minimize the societal burden of the disease in all areas and populations of the United States and Canada.

The cancer surveillance infrastructure in the U.S. and Canada has been orchestrated to meet these objectives. We gratefully acknowledge the voluntary commitment of all cancer registries in the U.S. and Canada to the achievement of high quality data, to their commitment to standardization of definition and processes so that aggregation of information from all states, provinces, territories, and regions in North America is not only possible, but meaningful.

The Editors May 2008

## CANCER IN NORTH AMERICA, 2001-2005

# VOLUME TWO: REGISTRY-SPECIFIC CANCER INCIDENCE IN THE UNITED STATES AND CANADA

A Publication of the North American Association of Central Cancer Registries, Inc. (NAACCR)

#### **Editors:**

Holly L. Howe, NAACCR, Inc.
Andrew Lake, Information Management Services, Inc.
Rick Firth, Information Management Services, Inc.
Melinda Lehnherr, Illinois State Cancer Registry
Rana Bayakly, Georgia Comprehensive Cancer Registry
Glenn Copeland, Michigan Cancer Surveillance Program
Xiao-Cheng Wu, Louisiana Tumor Registry
Antoinette Stroup, Utah Cancer Registry
David Roney, Information Management Services, Inc.



#### **May 2008**

The Editorial Subcommittee of the NAACCR Standing Committee, Data Use and Research Committee publishes this monograph. We are grateful to the National Cancer Institute, National Institutes of Health (NCI/NIH) for providing support for the production under Contract No. HHSN261200444001C/ADB Contract No. PC-44401. We acknowledge partial support of NAACCR staff by cooperative agreement U75/CCU52346-05 from the Centers for Disease Control and Prevention (CDC) and by the NCI/NIH Contract No. HHSN261200444001C/ADB Contract No. PC-44401. Its contents are solely the responsibility of the editors and do not necessarily represent the official view of CDC.

# CINA PARTICIPANTS 2001-2005



#### SUGGESTED CITATION:

Howe HL, Lake A, Firth R, Lehnherr M, Bayakly R, Copeland G, Wu XC, Stroup A, Roney D (eds). *Cancer in North America, 2001-2005. Volume Two: Registry-specific Cancer Incidence in the United States and Canada.* Springfield, IL: North American Association of Central Cancer Registries, Inc. May 2008.

## **TABLE OF CONTENTS**

TIO	ON II: Average-annual Registry-specific Cancer Incidence by Race, Ethnicity and Sex, Age-adjusted to the 2000 U.S. and 1996 Canadian Population Standards	
	United States Registries	
	Alabama	
	Alaska	
	Arizona	
	Arkansas	
	California	
	CA: Greater Bay Area	
	CA: Los Angeles	
	Colorado	
	Connecticut	
	Delaware	
	Florida	
	Georgia	
	GA: Metropolitan Atlanta	
	Hawaii	
	Idaho	
	Illinois	
	Indiana	
	Iowa	
	Kentucky	
	Louisiana	
	Maine	
	Massachusetts	
	Michigan	
	MI: Metropolitan Detroit	
	Minnesota	
	Mississippi	
	Missouri	
	Montana	
	Nebraska	
	Nevada	
	New Hampshire	
	New Jersey	
	New Mexico	
	New York	
	North Dakota	
		I

## **Contents**

Oregon II-2	297
Pennsylvania II-3	305
Rhode Island II-3	313
South Carolina II-3	321
South Dakota II-3	329
Tennessee	337
Texas II-3	345
Utah	353
Virginia II-3	361
Washington	
WA: Seattle/Puget Sound	377
West Virginia II-3	385
Wyoming II-3	393
CANADIAN REGISTRIES	
Alberta II-4	101
British Columbia II-4	103
Manitoba II-4	105
New Brunswick II-4	107
Newfoundland and Labrador II-4	109
Northwest Territories	111
Nova Scotia II-4	
N	113
NunavutII-4	
Nunavut	115
	115 117
Ontario	115 117 119
Ontario II-4 Prince Edward Island III-4	415 417 419 421

All Appendices are available on the NAACCR website: http://www.naaccr.org/cancerinnorthamerica