

国家癌症中心

National Cancer Center

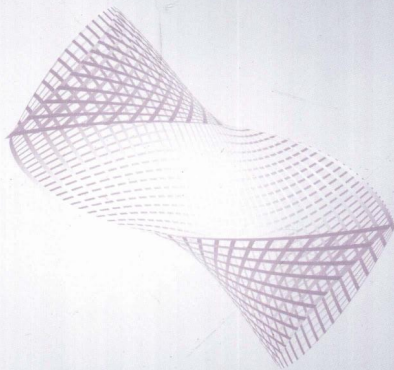
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中国肿瘤登记年报

CHINESE CANCER REGISTRY ANNUAL REPORT



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中国抗癌协会
中国肿瘤登记中心
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ANNUAL REPORT OF CANCER REGISTRATION IN CHINA



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中国肿瘤登记中心

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gratitude to all staff of cancer registries who have
made a great contribution for the report, especially on
cultivating the cancer registration database. Sincere
thanks go to all members of the Review Group for
their valuable comments on the publication.

肿瘤登记处名单 List of cancer registries

省(市、区) Province and municipality	肿瘤登记处 Cancer registries	登记处所在单位 Institute	地级以上城市 =1 县和县级市 =2 City=1 County=2
北京 Beijing	北京市 Beijing City	北京肿瘤医院肿瘤研究所 Cancer Hospital & Cancer Institute of Beijing	1
河北 Hebei	涉县 Shexian County	河北省涉县肿瘤研究所 Cancer Institute of Shexian, Hebei	2
	磁县 Cixian County	河北省磁县肿瘤医院 Cancer Hospital of Cixian, Hebei	2
山西 Shanxi	阳城县 Yangcheng County	山西省阳城县肿瘤研究所 Cancer Institute of Yangcheng, Shanxi	2
辽宁 Liaoning	沈阳市 Shenyang City	辽宁省沈阳市疾病预防控制中心 Shenyang Center for Disease Control and Prevention	1
	大连市 Dalian City	辽宁省大连市疾病预防控制中心 Dalian Center for Disease Control and Prevention	1
	鞍山市 Anshan City	辽宁省鞍山市疾病预防控制中心 Anshan Center for Disease Control and Prevention	1
	本溪市 Benxi City	辽宁省本溪市疾病预防控制中心 Benxi Center for Disease Control and Prevention	1
	丹东市 Dandong City	辽宁省丹东市疾病预防控制中心 Dandong Center for Disease Control and Prevention	1
黑龙江 Heilongjiang	哈尔滨市道里区 Daoli District, Harbin City	黑龙江省哈尔滨市道里区疾病预防控制中心 Daoli District Center for Disease Control and Prevention	1
	哈尔滨市南岗区 Nangang District, Harbin City	黑龙江省哈尔滨市南岗区疾病预防控制中心 Nangang District Center for Disease Control and Prevention	1
上海 Shanghai	上海市 Shanghai City	上海市疾病预防控制中心 Shanghai Municipal Center for Disease Control and Prevention	1
江苏 Jiangsu	苏州市 Suzhou City	江苏省苏州市疾病预防控制中心 Suzhou Center for Disease Control and Prevention	1
	铜山县 Tongshan County	江苏省铜山县疾病预防控制中心 Tongshan Center for Disease Control and Prevention	2
	金坛市 Jintan County	江苏省金坛市疾病预防控制中心 Jintan Center for Disease Control and Prevention	2
	海安县 Hai'an County	江苏省海安县疾病预防控制中心 Hai'an Center for Disease Control and Prevention	2

(续)肿瘤登记处名单 List of cancer registries (Continued)

省(市、区) Province and municipality	肿瘤登记处 Cancer registries	登记处所在单位 Institute	地级以上城市=1 县和县级市=2 City=1 County=2
江苏 Jiangsu	启东市 Qidong County	江苏省启东肝癌研究所 Qidong Liver Cancer Institute, Jiangsu	2
	海门市 Haimen County	江苏省海门市疾病预防控制中心 Haimen Center for Disease Control and Prevention	2
	连云港市 Lianyungang City	江苏省连云港市疾病预防控制中心 Lianyungang Center for Disease Control and Prevention	1
	赣榆县 Ganyu County	江苏省赣榆县疾病预防控制中心 Ganyu Center for Disease Control and Prevention	2
	东海县 Donghai County	江苏省东海县疾病预防控制中心 Donghai Center for Disease Control and Prevention	2
	灌云县 Guanyun County	江苏省灌云县疾病预防控制中心 Guanyun Center for Disease Control and Prevention	2
	淮安市楚州区 Chuzhou District, Huai'an City	江苏省淮安市楚州区疾病预防控制中心 Chuzhou District Center for Disease Control and Prevention	1
	淮安市淮阴区 Huaiyin District, Huai'an City	江苏省淮安市淮阴区疾病预防控制中心 Huaiyin District Center for Disease Control and Prevention	1
	盱眙县 Xuyi County	江苏省盱眙县疾病预防控制中心 Xuyi Center for Disease Control and Prevention	2
	金湖县 Jinhu County	江苏省金湖县疾病预防控制中心 Jinhu Center for Disease Control and Prevention	2
	射阳县 Sheyang County	江苏省射阳县疾病预防控制中心 Sheyang Center for Disease Control and Prevention	2
	建湖县 Jianhu County	江苏省建湖县疾病预防控制中心 Jianhu Center for Disease Control and Prevention	2
	大丰市 Dafeng County	江苏省大丰市疾病预防控制中心 Dafeng Center for Disease Control and Prevention	2
	扬中市 Yangzhong County	江苏省扬中市疾病预防控制中心 Yangzhong Center for Disease Control and Prevention	2
	泰兴市 Taixing County	江苏省泰兴市疾病预防控制中心 Taixing Center for Disease Control and Prevention	2
浙江 Zhejiang	杭州市 Hangzhou City	浙江省杭州市疾病预防控制中心 Hangzhou Center for Disease Control and Prevention	1
	嘉兴市 Jiaxing City	浙江省嘉兴市疾病预防控制中心 Jiaxing Center for Disease Control and Prevention	1
	嘉善县 Jiashan County	浙江省嘉善县肿瘤防治所 Cancer Institute of Jiashan County, Zhejiang	2
	海宁市 Haining County	浙江省海宁市中医院肿瘤所 Haining Chinese Traditional Medical Hospital & Cancer Institute	2
安徽 Anhui	肥西县 Feixi County	安徽省肥西县疾病预防控制中心 Feixi Center for Disease Control and Prevention	2
	马鞍山市 Ma'anshan City	安徽省马鞍山市疾病预防控制中心 Ma'anshan Center for Disease Control and Prevention	1

(续)肿瘤登记处名单 List of cancer registries (Continued)

省(市、区) Province and municipality	肿瘤登记处 Cancer registries	登记处所在单位 Institute	地级以上城市 =1 县和县级市 =2 City=1 County=2
安徽 Anhui	铜陵市区 Tongling City	安徽省铜陵市疾病预防控制中心 Tongling Center for Disease Control and Prevention	1
	阜阳市颖东区 Yingdong District, Fuyang City	安徽省阜阳市颖东区疾病预防控制中心 Yingdong District Center for Disease Control and Prevention	1
福建 Fujian	长乐市 Changle County	福建省长乐市肿瘤防治研究所 Cancer Prevention and Control Institute of Changle, Fujian	2
	厦门市 Xiamen City	福建省厦门市疾病预防控制中心 Xiamen Center for Disease Control and Prevention	1
山东 Shandong	临朐县 Linqu County	山东省临朐县卫生局肿瘤登记处 Cancer Registry of Linqu Health Bureau	2
	肥城市 Feicheng County	山东省肥城市人民医院 People's Hospital of Feicheng, Shandong	2
河南 Henan	林州市 Linzhou County	河南省林州市肿瘤医院 Cancer Hospital of Linzhou, Henan	2
湖北 Hubei	武汉市 Wuhan City	湖北省武汉市疾病预防控制中心 Wuhan Center for Disease Control and Prevention	1
广东 Guangdong	广州市 Guangzhou City	广东省广州市疾病预防控制中心 Guangzhou Center for Disease Control and Prevention	1
	深圳市 Shenzhen City	深圳市疾病预防控制中心慢病所 Chronic Disease Institute, Shenzhen Center for Disease Control and Prevention	1
	四会市 Sihui County	广东省四会市肿瘤研究所 Cancer Institute of Sihui, Guangdong	2
	中山市 Zhongshan City	广东省中山市肿瘤研究所 Cancer Institute of Zhongshan, Guangdong	1
广西 Guangxi	苍梧县 Cangwu County	广西自治区苍梧县肿瘤防治研究所 Cancer Prevention and Control Institute of Cangwu, Guangxi	2
	扶绥县 Fusui County	广西自治区扶绥县肿瘤防治研究所 Cancer Prevention and Control Institute of Fusui, Guangxi	2
重庆 Chongqing	重庆市九龙坡区 Jiulongpo District, Chongqing City	重庆市九龙坡区疾病预防控制中心 Jiulongpo District Center for Disease Control and Prevention	1
四川 Sichuan	盐亭县 Yanting County	四川省盐亭县肿瘤防治研究所 Cancer Prevention and Control Institute of Yanting, Sichuan	2
云南 Yunnan	个旧市 Gejiu County	云南省个旧市防癌办 Office of Cancer Prevention of Gejiu, Yunnan	2
甘肃 Gansu	兰州市 Lanzhou City	甘肃省兰州市疾病预防控制中心 Lanzhou Center for Disease Control and Prevention	1
	武威市 Wuwei City	甘肃省武威市肿瘤医院 Cancer Hospital of Wuwei, Gansu	1

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前言

全国肿瘤登记中心自2004年建立中国肿瘤登记年报制度以来,已先后出版了历年的中国肿瘤登记年报,为我国肿瘤预防与控制各项政策的制定、流行病学研究以及防治措施的实施与评价提供科学依据。2011年,全国肿瘤登记中心收到全国56个肿瘤登记处2008年肿瘤登记数据。通过对上报数据质量的综合审核,有41个登记处的数据入选为本次报告的资料来源,以反映2008年我国肿瘤登记覆盖地区癌症的发病与死亡水平。

入选本次报告的资料覆盖2008年人口约6614万,包括20个城市地区(约5216万人口)和21个农村地区(约1398万人口)。年报内容共分五个部分,第一部分为概述;第二部分是数据质量评价;第三、四部分列出主要分析结果;第五部分是附录,包括数据列表以及登记工作的流程、统计方法和指标。

在各级政府的支持和大家的努力下,肿瘤登记工作逐步深入,人口覆盖范围不断扩大,登记质量逐年提高。2012年将收集2009年数据,是卫生部设立肿瘤登记项目之年,希望中国肿瘤登记工作会迈上一个新台阶。

《2011中国肿瘤登记年报》的顺利出版,凝结着全国肿瘤登记处工作人员和编写人员的辛勤劳动,在此谨表衷心的感谢!

赫捷

2011年11月

Foreword

Since annual cancer case reporting mechanism set up in 2004, the National Central Cancer Registry (NCCR) has published annual cancer registration data through the years, providing useful information for mapping out strategies of cancer prevention and control, study of cancer epidemiology, cancer control implementation and evaluation. This year, the center collected data for 2008 from 56 cancer registries. After comprehensive evaluation of the quality of these materials, data from 41 cancer registries has been selected as sources of this annual report to reflect cancer incidence and mortality in the registration areas in 2008.

The data in this report covers 66.14 millions people from 20 urban areas (about 52.16 millions) and 21 rural areas (about 13.98 millions). It comprises five parts. Part one is the introduction of background. Part two is the evaluation of data quality. Part three through part four list main analysis results. Attached statistic tables of overall and selected cancer registries are included in Part five, followed by the operation procedures of cancer registration and the statistical methods.

Through full supports from governments at all levels and arduous efforts of all staff, cancer registration is developing soundly and in depth, and the population coverage is gradually increasing with improvement of data quality. In the next year, we would start to collect registration data in 2009, which is the year launched program of cancer registration by Ministry of Health. It is helpful to the progress of our future work in this regard.

The *Chinese Cancer Registry Annual Report 2011* is smoothly published. We are indebted to all staff in the cancer registries and our editorial board.

Jie He

November, 2011

1 概述

根据全国肿瘤登记中心每年发布的统计数据显示,我国恶性肿瘤的发病及死亡仍呈上升趋势。目前,我国肿瘤登记处数量不断增加,数据质量也在逐步提高,肿瘤登记年报数据已逐渐成为制定癌症防治策略、临床科研的基础数据。此次共有 56 个登记处上报肿瘤登记数据,其中多数登记处的数据曾经被肿瘤登记年报收录。我国第一卷肿瘤发病与死亡数据集《中国试点市、县恶性肿瘤的发病与死亡(1988-1992)》共收录 11 个肿瘤登记处的资料,今年肿瘤登记年报共收录 41 个登记处的肿瘤登记数据,覆盖人口增加了 2 倍,达 6 千多万,涵盖 18 个省、直辖市和自治区。

1.1 中国肿瘤登记的发展

1 Introduction

Cancer burden has been rising gradually according to the cancer annual report published by National Central Cancer Registry (NCCR). The number of cancer registries in China is increasing and the data quality is improving. Cancer information in the annual report has become the basic data for making anti-cancer strategies and guiding clinical research. Till now, there are 56 registries providing the data to NCCR, and most of them have been accepted for cancer reports. Compared with "Cancer Incidence and Mortality in Pilot Counties and Cities in China (1988-1992)"—the first published dataset of cancer incidence and mortality which included data from 11 cancer registries, in this volume of annual report the number of qualified registries reaches 41, and the covered population is tripled compared with that in the first volume.

1.1 History of cancer registration in China

表 1-1 中国肿瘤登记数据发表情况
Table 1-1 Publication of cancer registration data

时间 Period	发表年份 Publication year	登记点数 No. of registries	覆盖人口 Population(10 thousands)	省(市、区)数 No. of provinces and municipalities
1988-1992	2001	11	2169	11
1993-1997	2002	12	2224	12
1998-2002	2007	30	4081	18
2003	2007	35	5603	20
2004	2008	38	7191	20
2005	2009	34	5492	19
2006	2010	34	5957	19
2007	2011	38	5981	17
2008	2011	41	6614	18

表 1-2 中国肿瘤登记点数据发表情况
Table 1-2 Publication of cancer registration data from cancer registries

登记处 Cancer registries	1988-1992	1993-1997	1998-1992	2003	2004	2005	2006	2007	2008
北京市 Beijing City	+	+	+	+	+	+	+	+	+
天津市 Tianjin City	+	+	+	+	+				
涉县 Shexian County			+	+	+	+	+	+	+
磁县 Cixian County	+	+	+	+	+	+	+	+	+
阳城县 Yangcheng County			+	+	+	+	+	+	+
沈阳市 Shenyang City					+	+	+	+	+

续表 1-2 中国肿瘤登记点数据发表情况

Table 1-2 Publication of cancer registration data from cancer registries(Continued)

登记处 Cancer registries	1988-1992	1993-1997	1998-2002	2003	2004	2005	2006	2007	2008
大连市 Dalian City			+	+	+	+	+	+	+
鞍山市 Anshan City			+	+	+	+	+	+	+
本溪市 Benxi City					+	+	+	+	+
丹东市 Dandong City									+
哈尔滨市道里区 Daoli District, Harbin City						+	+	+	+
哈尔滨市南岗区 Nangang District, Harbin City	+	+	+	+	+	+	+	+	+
上海市 Shanghai City	+	+	+	+	+	+	+	+	+
金坛市 Jintan County				+	+	+	+		
苏州市 Suzhou City							+	+	+
启东市 Qidong County	+	+	+	+	+	+	+	+	+
海门市 Haimen County			+	+	+	+	+	+	+
连云港市 Lianyungang City					+			+	+
赣榆县 Ganyu County				+					
灌云县 Guanyun County								+	
淮安市楚州区Chuzhou District, Huai'an City			+	+	+	+	+	+	+
金湖县 Jinhu County								+	+
射阳县 Sheyang County									+
建湖县 Jianhu County					+	+	+	+	+
大丰市 Dafeng County				+	+	+	+	+	+
扬中市 Yangzhong County			+	+	+	+	+	+	+
泰兴市 Taixing County				+	+			+	+
杭州市 Hangzhou City			+	+	+	+	+	+	+
嘉兴市 Jiaxing City			+	+	+	+	+	+	+
嘉善县 Jiasan County	+	+	+	+	+	+	+	+	+
海宁市 Haining County			+	+	+	+	+	+	+
马鞍山市 Ma'anshan City				+	+	+	+	+	+
铜陵市区 Tongling City									+
长乐市 Changle County	+	+	+	+	+	+	+	+	+
临朐县 Linqu County		+	+	+	+	+	+	+	+
肥城市 Feicheng County			+	+	+	+	+	+	+
林州市 Linzhou County	+	+	+	+	+	+	+	+	+
武汉市 Wuhan City	+	+	+	+	+	+	+	+	+
广州市 Guangzhou City			+	+	+	+	+	+	+
深圳市 Shenzhen City				+					
四会市 Sihui County			+	+	+	+	+	+	+
中山市 Zhongshan City			+	+	+	+	+	+	+
苍梧县 Cangwu County*				+	+				
重庆市九龙坡区 Julongpo District, Chongqing City				+	+			+	
扶绥县 Fusui County	+	+	+	+	+	+	+	+	+
盐亭县 Yanting County			+	+	+	+	+	+	+
个旧市 Gejiu County			+	+	+				+
武威市 Wuwei City				+	+				+

*：苍梧县只上报鼻咽癌(Cangwu County reported nasopharyngeal cancer cases only)

1.2 卫生部肿瘤登记项目

中央财政安排 2008 年度肿瘤登记专项经费对登记点调研、人员培训、癌症发病、死亡和人口信息收集、数据整理给予补助。在原有登记点基础上新增 52 个点, 肿瘤登记覆盖全国 31 个省(自治区、直辖市)的 95 个市县, 人口约 1 亿 1 千万。2009 年度又新增登记点 54 个, 总数达到 149 个, 覆盖人口达全国人口的 10%。2011 年度继续增加 46 个登记点, 总数达到 195 个, 覆盖人口超过全国人口的 13%。

1.3 本次年报数据收集情况

1.3.1 覆盖地区

提交数据的 56 个登记处分布在 19 个省(自治区、直辖市), 其中地级以上城市 26 个, 县和县级市 30 个。城市地区登记覆盖范围除部分为市区外, 一般为全部城区, 县和县级市均为覆盖全县(市)范围。

(图 1-1)

1.2 Cancer registration program

The central government earmarked special funds of 2008 financial year for cancer registration in China. The program included investigation of cancer registries, training courses, data collections, data sort and analysis etc. On the basis of existed cancer registries, 52 counties or cities were selected to be new cancer registries covering all 31 provinces and municipalities in China with population over 110 millions. In 2009 financial year, 54 cancer registries were established on the basis of work in previous year, covering 10% of national population. In 2011 financial year, total cancer registries were continuously increased to 195 with more than 13% of population coverage.

1.3 Search for data in this cancer registry annual report

1.3.1 Coverage area

The 56 cancer registries are distributed in 19 provinces and municipalities, comprising 26 cities and 30 counties. Cancer registries in urban areas largely cover all central districts, except for some particular areas. Cancer registries in rural areas cover all areas in the county.

(Figure 1-1)



图 1-1 全国肿瘤登记地区的地理分布

Figure 1-1 Geographic distribution of the cancer registries in China

1.3.2 时间范围

上报的发病和死亡资料为 2008 年 1 月 1 日至 2008 年 12 月 31 日全年的发病和死亡数据,以及各年龄段的年中人口数据。

1.3.3 覆盖人口

全国 56 个肿瘤登记地区 2008 年覆盖人口 82 433 497 人,其中男性 41 621 780 人,女性 40 811 717 人,占全国 2008 年年末人口数的 6.21%。其中 41 个数据质量较好的肿瘤登记处数据被本次年报采纳,覆盖人口共 66 138 784 人,其中男性 33 340 597 人,女性 32 798 187 人,占全国 2008 年年末人口数的 4.98%。

1.3.4 登记质量

全国肿瘤登记中心根据《中国肿瘤登记工作指导手册》,并参照国际癌症研究机构(IARC)/国际癌症登记协会(IACR)《五大洲癌症发病率》第 9 卷对登记质量的有关要求,使用数据库软件 MS-FoxPro、SAS、MS-Excel 以及 IARC/IACR 的 IARC-ergTools 软件,对这些地区 2008 年的原始登记资料进行审核、整理,对资料质量的完整性和可靠性作评估。登记中心对审核过程中发现的质量问题,及时反馈给各肿瘤登记处,并根据各登记处再次提交的核实情况,对数据进行重新整理。本次年报最终选取 41 个登记处的数据作为合并的数据库。

1.3.5 本书内容

本书汇总了全国肿瘤登记覆盖地区 2008 年恶性肿瘤的发病、死亡及人口资料,包括中国人口标化率(中标率)、世界人口标化率(世标率)和累积率,分年龄、分性别的发病率和死亡率,以及死亡发病比,病理学诊断比例等数据。

1.3.2 Time scope

Cancer clinical information and personal information of patients who diagnosed or died in cancer from 1st January to 31st December 2008 were collected with registry's population data stratified by age and sex in mid-year.

1.3.3 Population coverage

The total number of coverage population in 56 cancer registries in 2008 were 82 433 497, including 41 621 780 males and 40 811 717 females, accounted for 6.21% of whole national population in the end of 2008. Pooled database from 41 qualified cancer registries covered 66 138 784 of populations, including 33 340 597 males and 32 798 187 females, accounted for 4.98%.

1.3.4 Registration quality

Completeness and reliability of submitted data were checked and evaluated by NCCR based on "Guideline for Chinese Cancer Registration" and referring to relevant data quality criterion of "Cancer Incidence in Five Continents Volume IX" by IARC/IACR. Softwares such as MS-FoxPro, SAS, MS-Excel and IARC/IACR tools IARC-ergTools were used for data collection, sort, check and evaluation. The feedback of found quality problems returned timely to registries, and revised data were re-submitted. Finally, NCCR accepted the data to be pooled for national estimation from 41 cancer registries.

1.3.5 Contents of the report

The annual report summarized and analyzed cancer incidence and mortality in 41 cancer registries in 2008, including incidence rate, mortality rate, China age-standardized rate (national population structure in 1982), world age-standardized rate (Segi's world standardized population), cumulative rate, age specific rate, gender specific rate, mortality to incidence ratio, percentage of morphologically verified cases etc.