

がんの統計'18

CANCER STATISTICS IN JAPAN — 2018



公益財団法人 がん研究振興財団

Foundation for Promotion of Cancer Research

序

「がんの統計'18」版が関係各位のご協力を頂き、発刊できましたことに感謝申し上げます。

本書は1974年に発刊されて以来45年になりますが、日本人のがんの変貌を実感し、正確な実態把握によるがん対策の重要性が再認識されるものとして多くの方々に親しまれてきました。収載されている各種統計は、我が国のがん対策を推進するうえでも貴重な資料でありますので、広くご活用いただければ幸いに存じます。

本書の編集にご協力いただきました編集委員会の皆様に心より御礼申し上げます。

平成31年 3月

公益財団法人がん研究振興財団
理事長 堀田 知光

Preface

We would like to thank for the cooperation of parties concerned in publishing cancer statistics 2018 version. This book has been published and read by many people since 1974. "Cancer statistics," published to date, contain valuable information, demonstrating changes in Japanese cancer statuses and reaffirming the importance of cancer control based on their accurate understanding. Various types of cancer statistics, included in this book, are important in promoting cancer control. Hence, we hope many people utilize them to promote cancer control.

We thank the editorial committee for their cooperation in editing this book.

March 2019

Chairman, Board of Directors
Tomomitsu Hotta, M.D.

History of Cancer Control in Japan	4 ~ 11
--	--------

Figures and Tables

1	Projection of Cancer Mortality and Incidence in 2018	14
2	Number of Deaths, by Cancer Site (2017)	15
3	Cancer Deaths by Age Group, Site Distribution (2017)	16
4	Mortality Rate by Cancer Site (2017)	17
5	Age-adjusted Cancer Mortality Rate under Age 75 by Prefectures (2017)	18 ~ 22
6	Number of Incidence by Cancer Site (2014)	23
7	Cancer Incidence by Age Group, Site Distribution (2014)	24
8	Incidence Rate by Cancer Site (2014)	25
9	5-year Survival Rate, Data from Population-based Cancer Registries (Diagnosed in 2006-2008)	26 ~ 27
10	5-year Relative Survival at the Designated Cancer Care Hospitals (Diagnosed in 2008-2009)	28
11	Distribution of Clinical Stage at Designated Cancer Care Hospitals (2016)	29
12	5-year Survival Rate in the Member Hospitals of the Association of Clinical Cancer Centers (Diagnosed in 2008-2010) ..	30 ~ 31
13	10-year Survival Rate in the Member Hospitals of the Association of Clinical Cancer Centers (Diagnosed in 2002-2005) ..	32 ~ 33
14	Cumulative Cancer Incidence/Mortality Risk	34 ~ 35
15	Cancer among children, adolescent and young adult	36 ~ 37
16	Trends in Crude Mortality Rate for Leading Causes of Death (1947-2017)	38
17	Trends in Age-adjusted Mortality Rate for Leading Causes of Death (1947-2017)	39
18	Trends in Site-specific Crude Mortality Rate (1965-2017)	40
19	Trends in Age-adjusted Mortality Rate (1958-2017)	41 ~ 42
20	Trends in Age-specific Mortality Rate (1965, 1990, 2017)	43 ~ 46
21	Trends in Site-specific Crude Incidence Rate (1980-2014)	47
22	Trends in Age-adjusted Incidence Rate (1985-2012)	48 ~ 49
23	Trends in Age-specific Incidence Rate (1980, 2014)	50 ~ 53
24	Trends in 5-year Survival Rate, Data from Population-based Cancer Registry (Diagnosed in 1993-1996, 1997-1999, 2000-2002, 2003-2005, 2006-2008) ..	54
25	Trends in Cancer Statistics : Age-adjusted Mortality/Incidence Rate	55
26	Smoking Prevalence	56 ~ 57
27	Cancer Screening Rates (2007, 2010, 2013, 2016)	58 ~ 60

Tabulated Data

1	Projection of Cancer Mortality and Incidence in 2018	62 ~ 63
2	Cancer Mortality by ICD-10 Classification (2017)	64 ~ 67
3	Number of Cancer Deaths by Age and Site (2017)	68 ~ 71
4	Cancer Mortality Rate by Age and Site (2017)	72 ~ 75
5	Cancer Mortality Rate by Prefecture	76 ~ 81
6	Number of Cancer Incidence by Age and Site (2014)	82 ~ 85
7	Cancer Incidence Rate by Age and Site (2014)	86 ~ 89
8	5-year Survival Rate in Population-based Cancer Registry (Diagnosed in 2006-2008)	90 ~ 91
9	5-year Survival at the Designated Cancer Care Hospitals (Diagnosed in 2008-2009)	92
10	5-year Survival Rate in the Member Hospitals of the Association of Clinical Cancer Centers (Diagnosed in 2008-2010) ..	93 ~ 96
11	10-year Survival Rate in the Member Hospitals of the Association of Clinical Cancer Centers (Diagnosed in 2002-2005) ..	97 ~ 100
12	Cancer among children, adolescent and young adult	101
13	Trends in Crude Mortality Rate for Leading Causes of Death (1910-2017)	102 ~ 103
14	Trends in Age-adjusted Mortality Rate for Leading Causes of Death (1947-2017)	104 ~ 105
15	Smoking Prevalence	106 ~ 109
16	Cancer Screening Rate (2007, 2010, 2013, 2016)	110 ~ 111
17	Narcotics for Medical Use	112 ~ 113
18	Trends in Consumption of Tobacco, Alcohol and Food	114 ~ 115
19	Trends in Estimated Rate of Patients (per day) in Japan (1996-2014)	116
20	Trends in Estimates of National Medical Care Expenditure in Japan (2004-2016)	117
	Glossary	118 ~ 121
	Topics①	122
	Topics②	123
	Topics③	124
	Topics④	125 ~ 126
	Topics⑤	127 ~ 129
	Topics⑥	130

1963	Subsidy for cancer research by Ministry of Health and Welfare started
1981	Cancer became the leading cause of death
1984	Comprehensive 10-year Strategy for Cancer Control (~1993)
1994	New 10-year Strategy to Overcome Cancer (~2003)
2004	The 3rd-term Comprehensive 10-year Strategy for Cancer Control (~2013)
2005 May.	Headquarters of Cancer Control in Ministry of Health, Labour and Welfare (MHLW)
2005 Aug.	Action Plan 2005 for Promotion of Cancer Control
2006 Jun.	Cancer Control Act enacted
2007 Apr.	Cancer Control Act implemented
2007 Jun.	Basic Plan to Promote Cancer Control Programs formulated
2009 Jul.	Headquarters of 50% Cancer Screening Rate (MHLW)
2012 Jun.	Basic Plan to Promote Cancer Control Programs revised
2013 Dec.	Cancer Registration Promotion Act was enacted.
2014 Mar.	Comprehensive 10-year Strategy for Cancer Control formulated (~2023)
2015 Jun.	Organization of Cancer Summit
2015 Dec.	Formulation of "Acceleration plan for cancer control"
2016 Jan.	Enforcement of Cancer Registration Promotion Act was implemented.
2016 Dec.	Amendment and implementation of a law to revise a part of the Cancer Control Act
2016 Dec.	Organization of Cancer Genome Medical Forum 2016
2018 Mar.	Basic Plan to Promote Cancer Control Programs revised

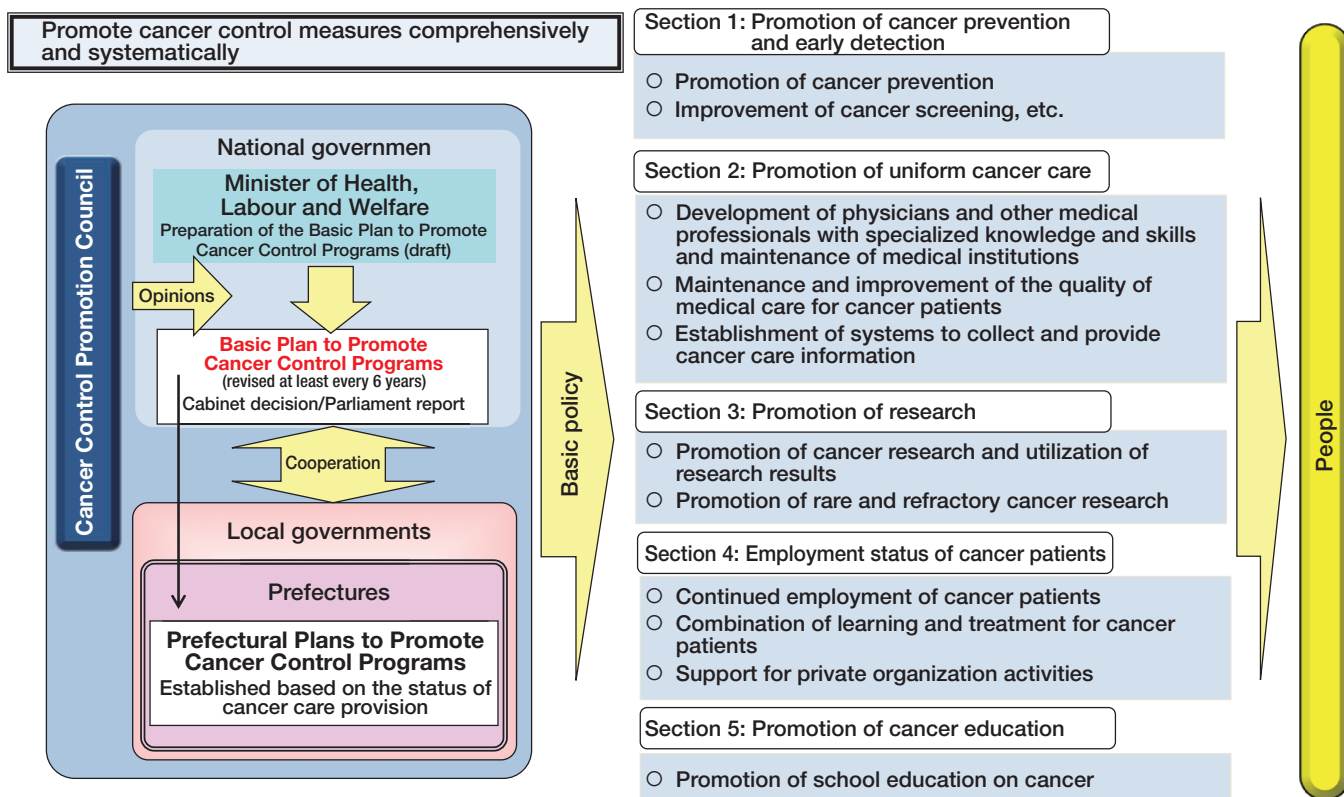
- Cancer has been the leading cause of death in Japan since 1981. The Japanese government formulated the Comprehensive 10-year Strategy for Cancer Control (1984-1993) and the New 10-year Strategy to Overcome Cancer (1994-2003) to tackle cancer. Since 2004, the 3rd-term Comprehensive 10-year Strategy for Cancer Control has been implemented in order to promote cancer research and disseminate high-quality cancer medical services, with the slogan "Drastic reduction in cancer morbidity and mortality".
- In May 2005, the Japanese Ministry of Health, Labour and Welfare (MHLW) developed the Headquarters of Cancer Control in order to promote multidisciplinary activity for comprehensive cancer control, and formulated the Action Plan 2005 for Promotion of Cancer Control in August.
- In June 2006, the Cancer Control Act was enacted and the law has been implemented since April 2007. Based on this law, the Basic Plan to Promote Cancer Control programs was discussed by the Cancer Control Promotion Council and approved by the Japanese Cabinet in June 2007.
- In July 2009, the Japanese MHLW developed the Headquarters of 50% Cancer Screening Rate to promote multidisciplinary activity for cancer screening.
- In June 2012, the Basic Plan to Promote Cancer Control Programs was revised based on the discussion at the Cancer Control Promotion Council and three expert committees under the council.
- In December 2013, Cancer Registration Promotion Act was enacted, and is being prepared to be implemented through discussion by the Cancer Registration Group established in June 2014.
- As a novel cancer research strategy based on the Basic Plan to Promote Cancer Control Programs, Comprehensive 10-year Strategy for Cancer Control was formulated in March 2014, with the approval of the Minister of Education, Culture, Sports, Minister of Health, Labour and Welfare, and Minister of Economy, Trade and Industry, in order to promote cancer research in cooperation with patients and society, targeting cancer eradication, prevention, and coexistence.
- In December 2015, the "Acceleration plan for cancer control" was formulated on three areas of "prevention," "treatment/research," and "coexistence with cancer."
- In November 2016, a bill was submitted to revise a part of the Cancer Control Act, which was enacted and implemented in December.
- In December 2016, with a goal to conquer cancer, the Genome Medical Forum 2016 was organized to provide an opportunity to reconstruct the cancer medical system from the viewpoints of patients, survivors, and their families.
- The Basic Plan to Promote Cancer Control Programs was decided by the Cabinet in March, 2018 based on discussion by the Cancer Control Promotion Council.

資料：厚生労働省健康局がん・疾病対策課

Source : Cancer and Disease control Division, Health Services Bureau, Ministry of Health, Labour and Welfare

○ Cancer Control Act (Article No. 98, 2006)

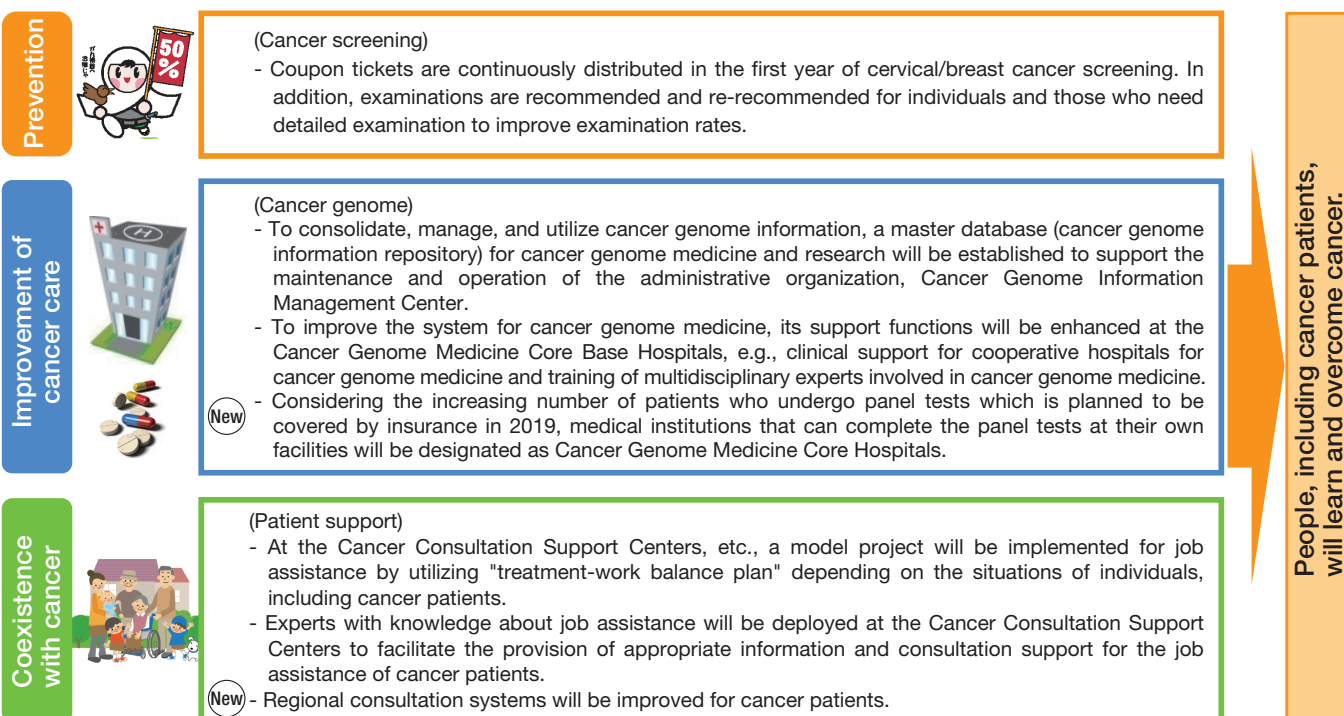
(established in June 2006, enforced in April 2007, and revised and enforced in December, 2016)



○ Promotion of cancer control

Draft budget in FY2019: 37 billion yen (budget in FY 2018: 35.8 billion yen)

Based on the 3rd-term Basic Plan to Promote Cancer Control Programs, approved by the Cabinet in March 2018, further measures are taken for cancer control based on the three policies of “cancer prevention,” “improvement of cancer care,” and “coexistence with cancer.”



The 3rd-term Basic Plan to Promote Cancer Control Programs (outline)

1. Overall goal

“People, including cancer patients, learn and overcome cancer.”

- (1) Improvement of cancer prevention and screening based on scientific evidence; (2) Realization of patient-oriented cancer medicine; and (3) Establishment of a society where patients can live peacefully while maintaining dignity.

2. Measures of each section

1. Cancer prevention

- (1) Primary cancer prevention
(2) Early detection and screening of cancer
(Secondary prevention)

2. Improvement of cancer care

- (1) Cancer genome medicine
(2) Surgery, radiation therapy, drug therapy, and immunotherapy for cancer
(3) Team medicine
(4) Cancer rehabilitation
(5) Supportive therapy
(6) Rare and refractory cancers
(Measures according to cancer characteristics)
(7) Childhood cancers and cancers of AYA* generation and the elderly
*Adolescent and young adult
(8) Pathological diagnosis
(9) Cancer registration
(10) Efforts towards early development and approval of pharmaceuticals and medical equipment

3. Coexistence with cancer

- (1) Palliative care after cancer diagnosis
(2) Consultation support and information provision
(3) Cancer measures and cancer patient support based on social cooperation
(4) Social problems, including employment statuses of cancer patients
(5) Cancer measures according to life stages

4. Improvement of infrastructure to support the above

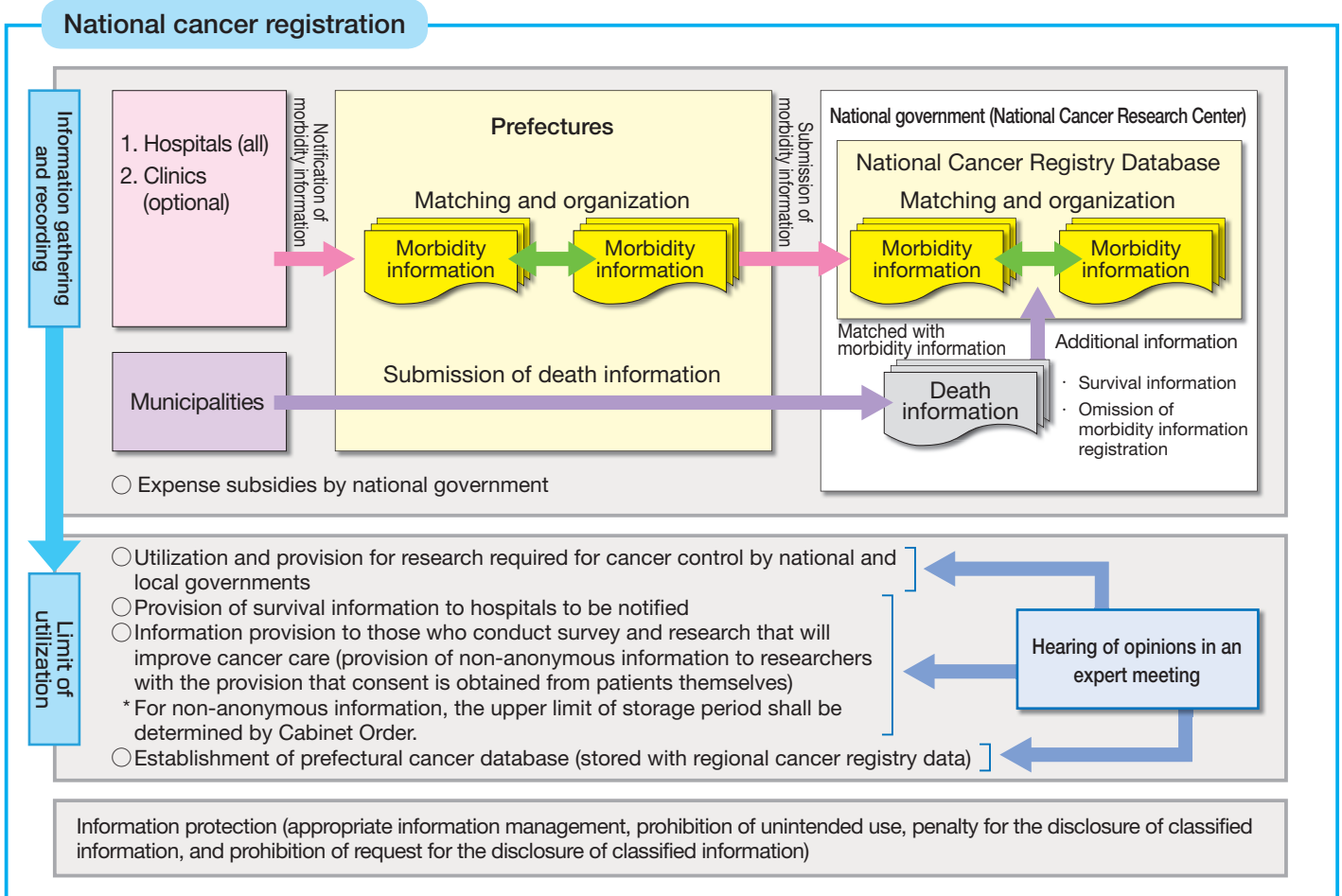
- (1) Cancer research
(2) Human resource development
(3) Cancer education and awareness

3. Comprehensive and systematic promotion of cancer measures

- | | |
|---|---|
| 1. Further cooperation among persons concerned | 5. Necessary financial measures and efficient and prioritized budgets |
| 2. Planning by prefectural governments | 6. Comprehension of goal achievements |
| 3. Efforts of the people, including cancer patients | 7. Review of basic plans |
| 4. Cooperation with patient organizations | |

Cancer registration

○ Law Concerning the Promotion of Cancer Registration (established in December 2013)



Promotion of hospital cancer registration
(promotion of hospital cancer registration and system maintenance for cancer information gathering by national government)

Human resource development
(training required for securing human resources for national and hospital cancer registration)

Utilization of cancer registry data

- National and prefectural governments → Enhancement of cancer control, information provision to medical institutions, publication of statistics, and consultation support for patients
- Medical institutions → Appropriate information provision to patients, analysis and evaluation of cancer care, and improvement of cancer care
- Researchers who received cancer registry data → Improvement of cancer care

○ Law Concerning the Promotion of Cancer Registration

- Law Concerning the Promotion of Cancer Registration was established in December 2013 to facilitate the understanding and analysis of the morbidity, medical care, and outcome of cancer and the other surveys and research of cancer, thereby improving cancer control.
- The basic concepts of this law are as follows:
 - (1) For national cancer registration, morbidity should be accurately understood through a wide range of information gathering;
 - (2) For hospital cancer registration, necessary information should be gathered through national cancer registration to promote its dissemination and enhancement;
 - (3) To enhance cancer control, detailed information should be gathered regarding cancer care;
 - (4) The results of cancer research and survey, including those in private sector, are utilized for the public; and
 - (5) Personal information in cancer registry should be strictly protected.
- Under this law, all hospitals and (some) clinics report cancer incidence information to prefectural governments. Morbidity information, matched and organized by prefectural governments, is notified to the national government (National Cancer Research Center), and is further matched and organized by the National Cancer Registry Database of the National Cancer Research Center and simultaneously with death information notified by municipalities as vital statistics to the national government. Cancer morbidity and death information obtained in Japan is centrally managed by the Japanese government to enhance the provision of information about cancer treatment and prevention and take measures for cancer control based on scientific findings.