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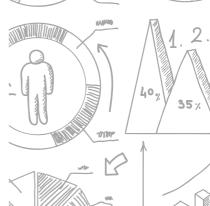
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The cancer monitoring program aims to

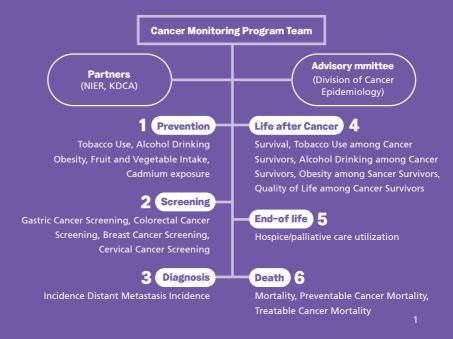
01

Monitoring the cancer-related indicators, including cancer prevention, occurrence, survivors, death, and so on, for exploring the cancer burden at a national level on the current state and for monitoring the national cancer burden.

Developing the cancer monitoring indicators throughout cancer trajectory by time series analyzing on the change of cancer burden, which are involved the comprehensive plan for cancer control.



Developing a cancer monitoring system



Cancer monitoring indicators

Cancer monitoring indicators are comprised of 54 indicators in six categories, including prevention, screening, diagnosis, life after cancer, end of life, and death.

Prevention

Adult tobacco use
Adult alcohol drinking

Adult obesity

Adult intake of fruits and vegetables Tobacco use in middle and high school Alcohol drinking in middle and high school students

Obesity in middle and high school Cadmium exposure

sis

Diagnosis

Incidence

Distant metastasis incidence

End-of-life

Hospice/palliative care utilization



Screening

Gastric cancer screening Colorectal cancer screening Breast cancer screening Cervical cancer screening



Life after cancer

Survival

Tobacco use among cancer survivors
Alcohol drinking among cancer survivors
Obesity among cancer survivors
Quality of life among cancer survivors

Death

Mortality

Preventable cancer mortality

Treatable cancer mortality



Why do we need cancer monitoring?

1

To establish a systematical monitoring system for the current state and changes in disease burden and to generate an information at a national level

2

To enhance understanding on the current state and changes in disease burden due to cancer

3

To explore a target group of cancer patients that need monitoring and to facilitate follow-up

4

To derive indicators by establishing a national cancer burden monitoring database and a cancer surveillance system



To use as an evidence of cancer control policy through consistent production of statistics regarding overall cancer management including the diagnosis and treatment of cancer patients, continuously

Criteria for selecting cancer monitoring indicators

Primary selection criteria for cancer monitoring indicators:

Indicators that can be derived from survey data can represent the general population

Measure	Criteria
Prevention (behavioral factor)	Indicators to determine the compliance of individual rules presented by the national cancer prevention rules
Prevention (environmental risk factor)	Group 1 carcinogenic agents defined by the International Agency Research on Cancer Agents Classified by the IARC Monographs, Volumes 1–119
Screening	Cancers for which screening is recommended by the national cancer screening guideline Includes cancer screenings conducted, not only by the national cancer screening program NCSP, but also in the private sector
Diagnosis & death	All cancers including cancers subject to NCSP gastric cancer, colorectal cancer, liver cancer, lung cancer, breast cancer, and cervical cancer
End-of-life	Hospice/palliative care recipients

Procedure for selecting cancer monitoring indicators

For the selection of cancer monitoring indicators, we reviewed cancer—related literature and collected opinions from internal and external experts to establish the selection criteria and reflect in the indicator system.

Selection process for cancer monitoring indicators

STEP 01 Defining and structuring the indicators based on a review of the literature

- Identify the source of indicator data by category
- Select the criteria for indicators by category
- Determine Theoretical background of the indicators for each category, analyzing method, and target level

1

STEP 02 Analyzing the indicators and summarizing the derived results

Analyze the current state and trends of indicators by category



STEP 03 Collecting opinions on the indicators

- · Reflect the internal opinions of the indicators by category
- Re-analyze and validate the indicators



STEP 04 Holding a review meeting and workshop

- Collect opinions from internal and external experts and the academic society through monitoring workshops
- Collect opinions from related agencies and research centers



STEP 05 Deciding whether to select the indicator

- · Adequacy of the method to measure the indicator
- · Accuracy of indicator analysis results



STEP 06 Final selection of cancer monitoring indicators

Representative indicators of cancer monitoring

Measure	Representative indicators	Desired change	Trend	Period
Prevention	Adult tobacco use	0	0	1998-2018
	Adult alcohol drinking	0		2008-2018
	Adult obesity	0	0	1998-2018
	Adult intake of fruits and vegetables	0	0	1998-2018
Screening	Gastric cancer screening rate	0	0	2014-2020
	Colorectal cancer screening rate	0	0	2014-2020
	Breast cancer screening rate	0	0	2012-2020
	Cervical cancer screening rate	0	0	2014-2020
Diagnosis	Cancer incidence	0	•	2015-2018
	Gastric cancer incidence	0	0	2011-2018
	Colorectal cancer incidence	0	0	2014-2018
	Liver cancer incidence	0	0	2009-2018
	Lung cancer incidence	0	o *	2015-2018
	Breast cancer incidence	0	0	2002-2018



Measure	Representative indicators	Desired change	Trend	Period
Diagnosis	Cervical cancer incidence	0	0	2007-2018
Life after	All cancers survival	0	0	2012-2014
cancer	Gastric cancer survival	0		2011-2014
	Colorectal cancer survival	0	0	2012-2014
	Liver cancer survival	0	0	2010-2014
	Lung cancer survival	0	0	2007-2014
	Breast cancer survival	0	0	2004-2014
	Cervical cancer survival	0		1997-2014
End-of-life	Hospice/palliative care utilization	0	×°	2016-2019
Death	Cancer mortality	0	0	2003-2019
	Preventable Cancer mortality	0	0	2004-2019
	Treatable Cancer mortality	0	0	2013-2019

- * Statistically non-significant change
- due to short period data (for 4 year), we did not analyze trend analysis

Adult Tobacco Use

DEFINITION The percentage of people aged ≥19 years who have smoked at

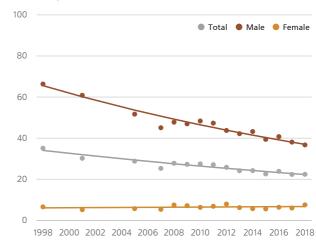
least 5 packs (100 cigarettes) during their lifetime and currently

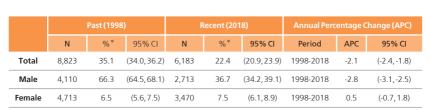
still smoke (age-standardized)

DATA SOURCE National Health and Nutrition Examination Survey (Ministry of

Health and Welfare, KDCA)

Trends in prevalence of adult tobacco use





^{*} Age adjusted to the 2005 projected Korean population

2016 23.9%

2018 22.4%

Adult Alcohol Drinking

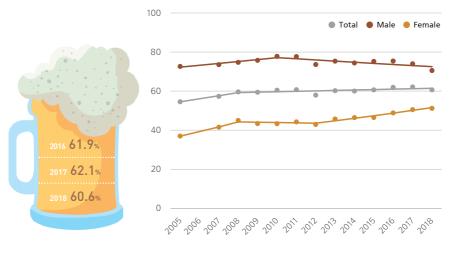
DEFINITION The percentage of people aged ≥ 19 years who have drunk at least

once a month in the past year (age-standardized)

DATA SOURCE National Health and Nutrition Examination Survey (Ministry of

Health and Welfare, KDCA)

Trends in prevalence of adult alcohol drinking



	Past (2005)				Recent (2018)			Annual Percentage Change (APC)			
	N	%*	95% CI	N	%*	95% CI	Period	APC	95% CI		
Total	7,802	54.6	(53.2, 56.0)	6,188	60.6	(58.9, 62.4)	2008-2018	0.4	(-0.1, 0.8)		
Male	3,510	72.6	(70.8, 74.4)	2,717	70.5	(68.4, 72.6)	2010-2018	-0.8	(-1.4, -0.1)		
Female	4,292	37.0	(35.2, 38.8)	3,471	51.2	(48.7, 53.7)	2012-2018	2.9	(2.1, 3.6)		

^{*} Age adjusted to the 2005 projected population

Adult Obesity

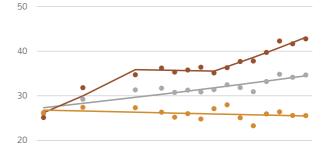
DEFINITION The percentage of people aged ≥19 years who have a body mass

index ≥25 kg/m² (age-standardized)

DATA SOURCE National Health and Nutrition Examination Survey (Ministry of

Health and Welfare, KDCA)

Trends in prevalence of adult obesity



.... 2016 34.8%

● Total ● Male ● Female

1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

	Past (1998)				Recent (20°	Annual Percentage Change (APC)			
	N	%*	95% CI	N	%*	95% CI	Period	APC	95% CI
Total	8,048	26.0	(24.9, 27.1)	6,170	34.7	(33.0, 36.3)	1998-2018	1.2	(0.9, 1.5)
Male	3,661	25.1	(23.3, 26.9)	2,719	42.8	(40.3, 45.2)	2011-2018	2.8	(2.0, 3.6)
Female	4,387	26.2	(24.8, 27.6)	3,451	25.5	(23.7, 27.3)	1998-2018	-0.3	(-0.6, 0.1)

st Age adjusted to the 2005 projected population

Adult Intake of Fruits and Vegetables

DEFINITION Daily intake of fruits and vegetables per 1,000kal by people aged

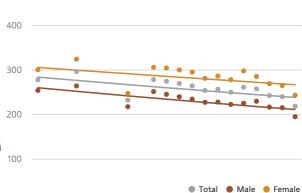
19 years and older (age-standardized)

DATA SOURCE National Health and Nutrition Examination Survey (Ministry of

Health and Welfare, KDCA)

Trends in daily intake of fruits and vegetables per 1,000kal





2016 242.69 2017 239.99 ···· 2018 218.99 ····

1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018

	Past (1998)				Recent (2)	018)	Annual Percentage Change (APC)			
	N	g*	95% CI	N	g*	95% CI	Period	APC	95% CI	
Total	10,400	277.9	(271.7, 284.1)	7,064	218.9	(213.7, 224.0)	1998-2018	-0.9	(-1.5, -0.3)	
Male	4,984	254.0	(247.1, 260.9)	3,144	195.2	(189.1, 201.3)	1998-2018	-1.0	(-1.5, -0.6)	
Female	5,416	300.5	(292.5, 308.5)	3,920	243.4	(236.5, 250.3)	1998-2018	-0.7	(-1.4, 0.0)	

st Age adjusted to the 2005 projected population



Gastric Cancer Screening Rate

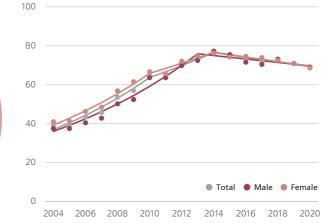
DEFINITION

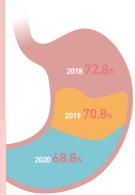
The percentage of males and females aged 40–74 years who underwent a upper endoscopy or upper gastrointestinal series within the past 2 years for gastric cancer screening, including not only NCSP screenings but also those conducted in opportunistic screening programs

DATA SOURCE

Korean National Cancer Screening Survey (National Cancer Center)

Trends in gastric cancer screening rate





	Past (2004)				Recent (20)20)	Annual Percentage Change (APC)			
	N	%	95% CI	N	%	95% CI	N	APC	95% CI	
Total	2,066	39.2	(37.1,41.3)	3,557	68.8	(67.3, 70.3)	2014-2020	-1.6	(-2.4, -0.8)	
Male	1,026	37.4	(34.4, 40.4)	1,757	69.0	(66.8, 71.2)	2013-2020	-1.2	(-2.2, -0.2)	
Female	1,040	40.9	(37.9, 43.9)	1,800	68.6	(66.5, 70.7)	2014-2020	-1.6	(-2.5, -0.7)	

Colorectal Cancer Screening Rate

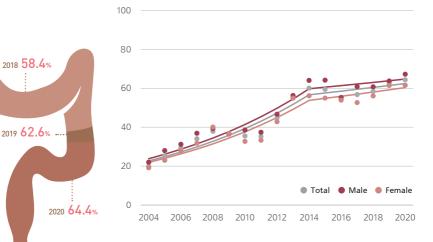
DEFINITION

The percentage of males and females aged 50–74 years who have received a fecal occult blood test in the past year, or colonoscopy in the past 10 years for colorectal cancer screening, including not only NCSP screenings, but also those conducted in opportunistic screening programs

DATA SOURCE

Korean National Cancer Screening Survey (National Cancer Center)

Trends in colorectal cancer screening rate



	Past (2004)			1	Recent (20	020)	Annual Percentage Change (APC)		
	N	%	95% CI	N	%	95% CI	N	APC	95% CI
Total	1,200	19.9	(17.6, 22.2)	2,467	64.4	(62.5, 66.3)	2014-2020	1.6	(-1.4, 4.7)
Male	577	22.0	(18.6, 25.4)	1,203	67.3	(64.6, 70.0)	2014-2020	1.3	(-1.4, 4.2)
Female	623	19.1	(16.0, 22.2)	1,264	61.6	(58.9, 64.3)	2014-2020	1.9	(-1.6, 5.6)



Breast Cancer Screening Rate

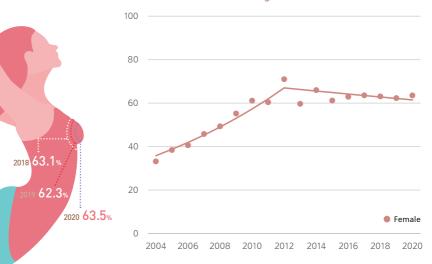
DEFINITION

The percentage of females aged 40-74 years who have received a mammography in the past 2 years for breast cancer screening, including not only NCSP screenings, but also those conducted in opportunistic screening programs

DATA SOURCE

Korean National Cancer Screening Survey (National Cancer Center)

Trends in breast cancer screening rate



	Past (2004)				Recent (2	020)	Annual Percentage Change (APC)		
	N	%	95% CI	N	%	95% CI	N	APC	95% CI
Total	-	-	-	-	-	-	-	-	-
Male	-	-	-	-	-	-	-	-	-
Female	1,040	33.2	(30.3, 36.1)	1,800	63.5	(61.3, 65.7)	2012-2020	-1.1	(-2.1, -0.0)

SCREENING

Cervical Cancer Screening Rate

DEFINITION

The percentage of females aged 30–74 years who have received a Pap smear test in the past 2 years for cervical cancer screening, including not only NCSP screenings, but also those conducted in opportunistic screening programs

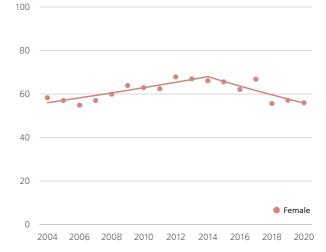
DATA SOURCE

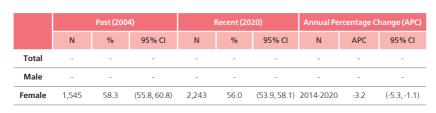
2018 55.6%

2019 **57.1**% 2020 **56.0**%

Korean National Cancer Screening Survey (National Cancer Center)

Trends in cervical cancer screening rate





Cancer Incidence

DEFINITION The observed number of new cancer cases each year for every

100,000 people (age-standardized)

DATA SOURCE National Cancer Statistics (Ministry of Health and Welfare, Korea

Central Cancer Registry)

Trends in incidence of all cancers



	Past (1999)				Recent (2	018)	Annual Percentage Change (APC)		
	N	I*	95% CI	N	I*	95% CI	Period	APC	95% CI
Total	101,834	221.6	(220.3, 223.0)	243,837	290.1	(288.8, 291.4)	2015-2018	1.1	(-1.1, 3.4)
Male	57,882	293.1	(290.7, 295.5)	128,757	306.1	(304.4, 307.9)	2015-2018	-0.3	(-1.7, 1.1)
Female	43,952	175.5	(173.9, 177.2)	115,080	288.5	(286.6, 290.3)	2015-2018	2.1	(-1.0, 5.2)

 $[\]ast$ Age adjusted to the 2000 mid-year population / I=Incidence

Gastric Cancer Incidence

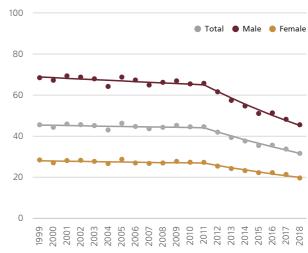
DEFINITION

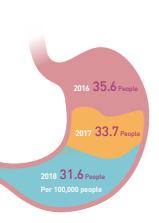
The observed number of new gastric cancer cases each year for every 100,000 people (age-standardized)

DATA SOURCE

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)

Trends in incidence of gastric cancer





		Past (199	99)		Recent (20	Annual Percentage Change (APC)			
	N	l*	95% CI	N	I*	95% CI	Period	APC	95% CI
Total	20,897	45.5	(44.9, 46.2)	29,279	31.6	(31.2, 32.0)	2011-2018	-4.6	(-5.4, -3.9)
Male	13,563	68.4	(67.2,69.6)	19,865	45.5	(44.8, 46.1)	2011-2018	-5.1	(-5.8, -4.3)
Female	7,334	28.4	(27.8, 29.1)	9,414	19.6	(19.1, 20.0)	2011-2018	-4.2	(-5.1, -3.3)

 $[\]ast$ Age adjusted to the 2000 mid-year population / I=Incidence

2016 **32.2** People

2017 **31.2** People ...

Colorectal Cancer Incidence

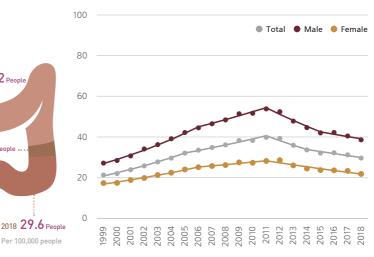
DEFINITION The observed number of new colorectal cancer cases each year for

every 100,000 people (age-standardized)

DATA SOURCE National Cancer Statistics (Ministry of Health and Welfare, Korea

Central Cancer Registry)

Trends in incidence of colorectal cancer



	Past (1999)			1	Recent (2018)			Annual Percentage Change (APC)			
	N	I*	95% CI	N	I*	95% CI	Period	APC	95% CI		
Total	9,780	21.3	(20.9, 21.7)	27,909	29.6	(29.2, 29.9)	2014-2018	-3.0	(-4.4, -1.7)		
Male	5,340	27.1	(26.4, 27.9)	16,686	38.6	(38.0, 39.2)	2015-2018	-2.7	(-4.4, -1.1)		
Female	4,440	17.3	(16.8, 17.8)	11,223	21.8	(21.3, 22.2)	2011-2018	-3.7	(-4.6, -2.8)		

 * Age adjusted to the 2000 mid-year population / I=Incidence

Liver Cancer Incidence

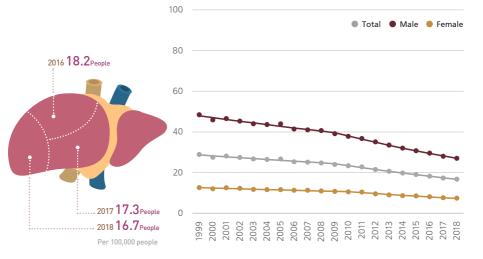
DEFINITION The observed number of new liver cancer cases each year for every

100,000 people (age-standardized)

DATA SOURCE National Cancer Statistics (Ministry of Health and Welfare, Korea

Central Cancer Registry)

Trends in incidence of liver cancer



	Past (1999)				Recent (2018)			Annual Percentage Change (APC)			
	N	1*	95% CI	N	1*	95% CI	Period	APC	95% CI		
Total	13,262	28.9	(28.4, 29.4)	15,736	16.7	(16.4, 17.0)	2009-2018	-4.1	(-4.4, -3.8)		
Male	10,022	48.4	(47.5, 49.4)	11,728	27.0	(26.5, 27.6)	2009-2018	-4.2	(-4.4, -3.9)		
Female	3,240	12.6	(12.1, 13.0)	4,008	7.4	(7.1, 7.6)	2010-2018	-4.6	(-5.1, -4.0)		

 $[\]ast$ Age adjusted to the 2000 mid-year population / I=Incidence

Lung Cancer Incidence

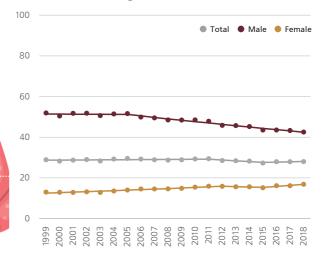
DEFINITION The observed number of new lung cancer cases each year for every

100,000 people (age-standardized)

DATA SOURCE National Cancer Statistics (Ministry of Health and Welfare, Korea

Central Cancer Registry)

Trends in incidence of lung cancer



	Past (1999)			- 1	Recent (2018)			Annual Percentage Change (APC)			
	N	l*	95% CI	N	l*	95% CI	Period	APC	95% CI		
Total	13,229	28.9	(28.4, 29.4)	28,628	28.0	(27.7, 28.4)	2015-2018	0.7	(-0.7, 2.1)		
Male	9,744	51.9	(50.8, 52.9)	19,524	42.5	(41.9, 43.2)	2005-2018	-1.4	(-1.6, -1.3)		
Female	3,485	13.0	(12.6, 13.4)	9,104	16.8	(16.4, 17.2)	2015-2018	3.2	(0.4, 6.0)		

 * Age adjusted to the 2000 mid-year population / I=Incidence

2018 **28.0** People Per 100,000 people

Breast Cancer Incidence

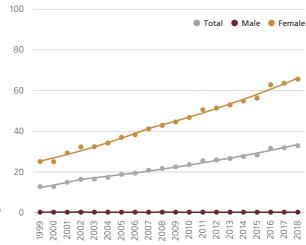
DEFINITION The observed number of new breast cancer cases each year for

every 100,000 people (age-standardized)

DATA SOURCE National Cancer Statistics (Ministry of Health and Welfare, Korea

Central Cancer Registry)

Trends in incidence of breast cancer



	40
2010 31.6 People 2017 31.9 People	20
2018 32.9 People Per 100,000 people	0

	Past (1999)				Recent (20	Annual Percentage Change (APC)			
	N	1*	95% CI	N	1*	95% CI	Period	APC	95% CI
Total	5,879	12.8	(12.4, 13.1)	23,647	32.9	(32.5, 33.4)	2002-2018	4.6	(4.3, 4.9)
Male	42	0.2	(0.1, 0.3)	100	0.2	(0.2, 0.3)	1999-2018	-0.5	(-1.6, 0.7)
Female	5,837	25.1	(24.4, 25.7)	23,547	65.6	(64.7, 66.5)	2007-2018	4.4	(3.8, 4.9)

st Age adjusted to the 2000 mid-year population / I=Incidence

Cervical Cancer Incidence

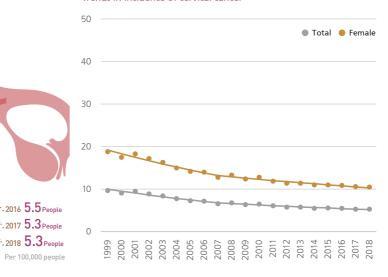
DEFINITION

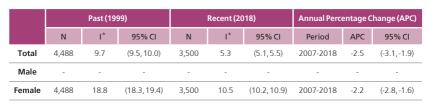
The observed number of new cervical cancer cases each year for every 100,000 people (age-standardized)

DATA SOURCE

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)

Trends in incidence of cervical cancer





st Age adjusted to the 2000 mid-year population / I=Incidence

All Cancer Survival

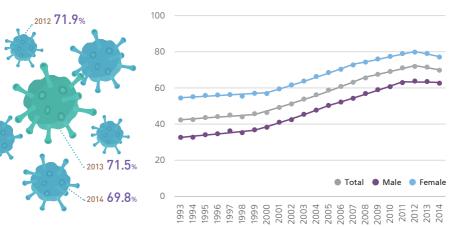
DEFINITION

The proportion of cancer patients surviving 5 years after diagnosis calculated in the absence of other causes of death, which is defined as the survival of patients with cancer (observed rate) divided by the expected survival of the general population

DATA SOURCE

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)

Trends in survival of all cancers



	Past (1993)			ı	Recent (2014)			Annual Percentage Change (APC)			
	N	%	95% CI	N	%	95% CI	Period	APC	95% CI		
Total	54,681	42.3	(41.9, 42.7)	198,437	69.8	(69.5, 70.0)	2012-2014	-1.7	(-3.0, -0.3)		
Male	30,794	32.6	(32.1, 33.3)	101,824	62.6	(62.3, 62.9)	2011-2014	-0.2	(-1.1,0.7)		
Female	23,887	54.4	(53.8, 55.1)	96,613	77.1	(76.8, 77.4)	2012-2014	-1.9	(-2.7, -1.0)		

Gastric Cancer Survival

DEFINITION

The proportion of gastric cancer patients surviving 5 years after diagnosis calculated in the absence of other causes of death, which is defined as the survival of patients with gastric cancer (observed rate) divided by the expected survival of the general population

DATA SOURCE

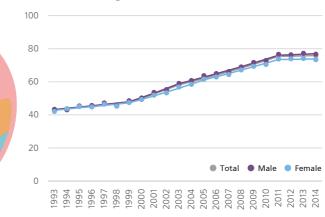
2012 75.5%

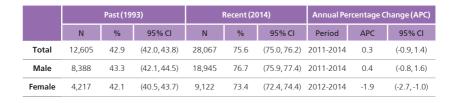
2013 76.2%

2014 75.6%

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)

Trends in survival of gastric cancer





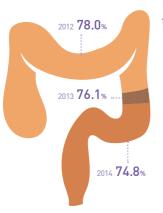
Colorectal Cancer Survival

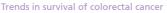
DEFINITION

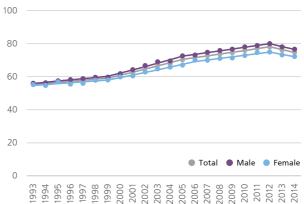
The proportion of colorectal cancer patients surviving 5 years after diagnosis calculated in the absence of other causes of death, which is defined as the survival of patients with colorectal cancer (observed rate) divided by the expected survival of the general population

DATA SOURCE

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)







	Past (1993)			- 1	Recent (2014)			Annual Percentage Change (APC)			
	N	%	95% CI	N	%	95% CI	Period	APC	95% CI		
Total	4,059	55.6	(53.9, 57.3)	24,595	74.8	(74.1,75.4)	2012-2014	-2.2	(-3.2, -1.2)		
Male	2,151	56.0	(53.6, 58.4)	14,700	76.6	(75.7,77.4)	2012-2014	-2.2	(-3.4, -1.0)		
Female	1,908	55.2	(52.8, 57.6)	9,895	72.2	(71.1,73.2)	2012-2014	-1.9	(-3.6, -0.2)		

Liver Cancer Survival

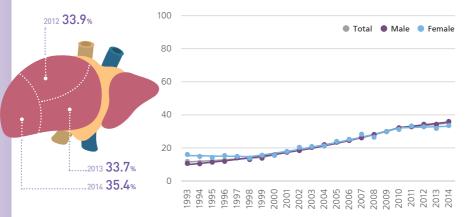
DEFINITION

The proportion of liver cancer patients surviving 5 years after diagnosis calculated in the absence of other causes of death, which is defined as the survival of patients with liver cancer (observed rate) divided by the expected survival of the general population

DATA SOURCE

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)

Trends in survival of liver cancer



	Past (1993)			F	Recent (2014)			Annual Percentage Change (APC)		
	N	%	95% CI	N	%	95% CI	Period	APC	95% CI	
Total	6,203	11.9	(11.0, 12.7)	14,228	35.4	(34.5, 36.2)	2010-2014	2.4	(0.9, 4.0)	
Male	4,819	10.6	(9.7, 11.6)	10,731	36.0	(35.0, 36.9)	2010-2014	2.5	(0.7, 4.4)	
Female	1,384	16.1	(14.2, 18.2)	3,497	33.5	(31.8, 35.1)	2010-2014	0.6	(-2.4, 3.7)	

Lung Cancer Survival

DEFINITION

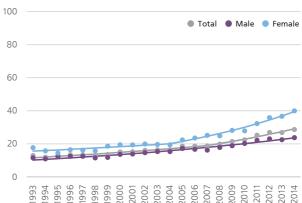
The proportion of lung cancer patients surviving 5 years after diagnosis calculated in the absence of other causes of death, which is defined as the survival of patients with lung cancer (observed rate) divided by the expected survival of the general population

DATA SOURCE

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)

2012 26.9%

Trends in survival of lung cancer



	Past (1993)			F	Recent (20	014)	Annual Percentage Change (APC)		
	N	%	95% CI	N	%	95% CI	Period	APC	95% CI
Total	6,485	12.9	(12.0, 13.8)	20,318	28.6	(28.1, 29.3)	2007-2014	6.3	(5.1, 7.5)
Male	5,037	11.5	(10.6, 12.5)	14,197	23.7	(22.9, 24.4)	1993-2014	4.1	(3.7, 4.5)
Female	1,448	17.6	(15.5, 19.7)	6,121	39.9	(38.6,41.2)	2004-2014	7.0	(6.1, 7.9)

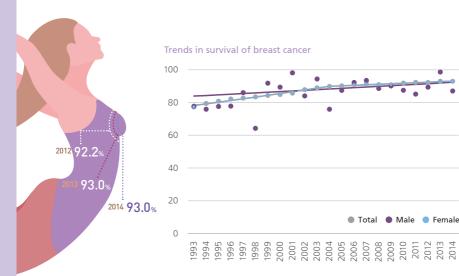
Breast Cancer Survival

DEFINITION

The proportion of breast cancer patients surviving 5 years after diagnosis calculated in the absence of other causes of death, which is defined as the survival of patients with breast cancer (observed rate) divided by the expected survival of the general population

DATA SOURCE

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)



	Past (1993)			ı	Recent (2014)			Annual Percentage Change (APC)		
	N	%	95% CI	N	%	95% CI	Period	APC	95% CI	
Total	3,054	77.3	(75.7, 78.9)	17,699	93.0	(92.6, 93.4)	2004-2014	0.4	(0.3, 0.4)	
Male	37	77.7	(57.5,92.2)	74	87.0	(73.1,97.3)	1993-2014	0.5	(-0.1, 1.0)	
Female	3,017	77.3	(75.7, 78.9)	17,625	93.0	(92.6, 93.4)	2004-2014	0.4	(0.3, 0.4)	

Cervical Cancer Survival

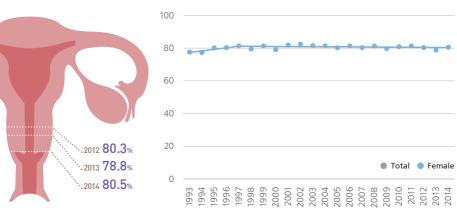
DEFINITION

The proportion of cervical cancer patients surviving 5 years after diagnosis calculated in the absence of other causes of death, which is defined as the survival of patients with cervical cancer (observed rate) divided by the expected survival of the general population

DATA SOURCE

National Cancer Statistics (Ministry of Health and Welfare, Korea Central Cancer Registry)

Trends in survival of cervical cancer



		Past (1993)			Recent (2014)			Annual Percentage Change (APC)			
	N	%	95% CI	N	%	95% CI	Period	APC	95% CI		
Total	4,140	77.6	(76.2,79.0)	3,357	80.5	(79.0, 81.9)	1997-2014	-0.1	(-0.2, 0.1)		
Male	-	-	-	-	-	-	-	-	-		
Female	4,140	77.6	(76.2,79.0)	3,357	80.5	(79.0, 81.9)	1997-2014	-0.1	(-0.2, 0.1)		

Hospice/Palliative Care Utilization

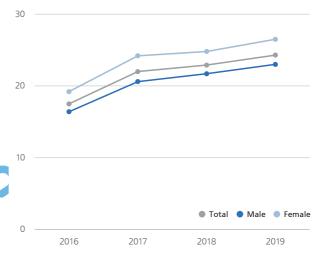
DEFINITION

The number of cancer patients who have utilized a hospice or palliative care for the first time relative to annual cancer deaths in the same year

DATA SOURCE

Hospice/palliative care system (National Cancer Center·National Hospice Center), Cause-of-death statistics (Statistics Korea)

Trends in proportion of hospice/palliative care utilization



	Past (1992)			F	Recent (2019)			Annual Percentage Change (APC)		
	N	%	95% CI	N	%	95% CI	Period	APC	95% CI	
Total	13,662	17.5	(17.2, 17.7)	19,772	24.3	(24.1, 24.6)	-	-	-	
Male	7,904	16.4	(16.1, 16.7)	11,570	23.0	(22.6, 23.4)	-	-	-	
Female	5,758	19.2	(18.8, 19.7)	8,202	26.5	(26.0, 27.0)	-	-	-	

Cancer Mortality

DEFINITION

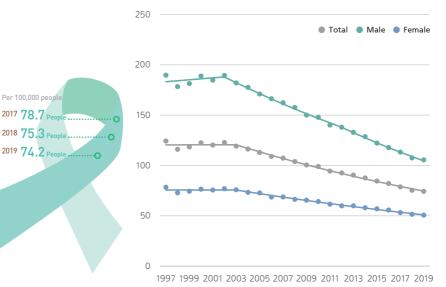
The observed number of death cancer cases each year for every 100,000 people (age-standardized)

DATA SOURCE

Per 100,000 people

Cause-of-death statistics (Statistics Korea)

Trends in mortality of all cancers



95% CI M* 95% CI Period APC 95% CI Total 52,848 124.2 (123.1, 125.2) 81,203 74.2 (73.6, 74.7)2003-2019 -3.0 (-3.1, -2.8)Male 33.795 189.6 (187.6, 191.7) 50,281 105.5 (104.6, 106.5) 2012-2019 -3.9 (-4.4, -3.4)19,053 78.3 2003-2019 -2.4 (-2.6, -2.3)Female (77.2, 79.4)30,922 50.6 (49.9, 51.2)

^{*} Age adjusted to the 2000 mid-year population / M=Mortality

Preventable Cancer Mortality

DEFINITION

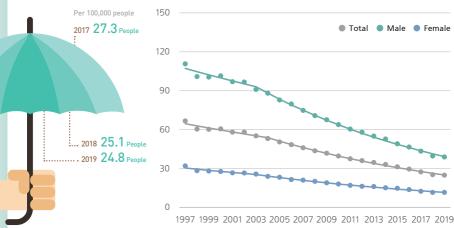
The observed deaths from preventable cancers* aged 0–74 each year for every 100,000 people (age–standardized)

* Lip, oral, pharyngeal cancer (C00–C14), esophageal cancer (C15), gastric cancer (C16), liver cancer (C22), lung cancer (C33–C34), mesothelioma (C45), melanoma (C43), bladder (C67), cervical cancer (C53, 50%)

DATA SOURCE

Cause-of-death statistics (Statistics Korea)

Trends in mortality of preventable cancers



	Past (1997)			Recent (2019)			Annual Percentage Change APC		
	N	M*	95% CI	N	M*	95% CI	Period	APC	95% CI
Total	28,418	66.6	(65.6, 67.4)	22,166	24.8	(24.4, 25.1)	2004-2019	-5.0	(-5.2, -4.7)
Male	20,934	110.6	(109.1, 112.1)	17,171	38.8	(38.2, 39.4)	2003-2019	-5.3	(-5.5, -5.1)
Female	7,484	31.9	(31.2, 32.6)	4,995	11.5	(11.1,11.8)	2003-2019	-4.8	(-5.1, -4.5)

st Age adjusted to the 2000 mid-year population / M=Mortality

Treatable Cancer Mortality

DEFINITION

The observed deaths from treatable cancers* aged 0– 74 each

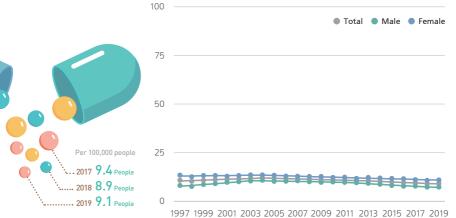
year for every 100,000 people (age-standardized)

*Colorectal cancer (C00–C21), female breast cancer (C50), ovarian cancer (C54–C55), testicular cancer (C62), thyroid cancer (C73), Hodgkin lymphoma (C81), lymphoid leukemia (C91.0, C91.1), benign tumor (D10–D36), cervical cancer (C53, 50%)

DATA SOURCE

Cause-of-death statistics (Statistics Korea)

Trends in mortality of treatable cancers



	Past (1997)			Recent (2019)			Annual Percentage Change APC		
	N	M*	95% CI	N	M*	95% CI	Period	APC	95% CI
Total	4,650	10.8	(10.5, 11.1)	7,459	9.1	(8.9, 9.3)	2013-2019	-2.8	(-3.6, -2.0)
Male	1,566	8.1	(7.7, 8.5)	3,072	7.3	(7.1, 7.6)	2011-2019	-3.9	(-4.7, -3.0)
Female	3,084	13.4	(13.0, 13.9)	4,387	10.9	(10.5, 11.2)	2004-2019	-1.4	(-1.6, -1.2)

st Age adjusted to the 2000 mid-year population / M=Mortality

