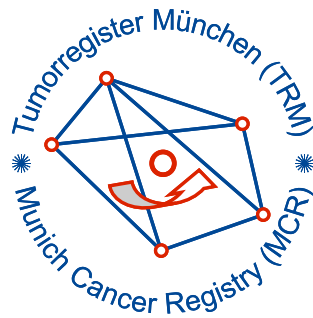


Munich Cancer Registry



- ▶ Survival
- ▶ Selection Matrix
- ▶ Homepage
- ▶ *Deutsch*

Munich Cancer Registry at Munich Cancer Center
Marchioninstr. 15
Munich, 81377
Germany

<http://www.tumorregister-muenchen.de/en>

Cancer statistics: Baseline statistics

C25: Pancreas cancer

Year of diagnosis	1998-2013
Patients	10,876
Diseases	10,877
Creation date	05/19/2015
Export date	12/30/2014
Population	4.64 m



http://www.tumorregister-muenchen.de/en/facts/base/base_C25__E.pdf

Global Statements about the statistics on the Internet –
Baseline Statistics (grey button ) , **Survival** (red button )

In these analyses, the clinics and physicians of Upper Bavaria and the city and county of Landshut[#], with a total of 4.64 million inhabitants, account for the frequency of cancer diseases^{##} and the achieved long term results. Additionally, the long term survival evaluated by the Munich Cancer Registry (MCR) is compared with the results of the population-based registry in the USA (SEER), which is useful for checking the consistency of the data on an international level.

In comparing several tables, inconsistent figures may be detected. This is based on the fact that different patient cohorts are included in the base calculation, for example when proportions of multiple tumors or DCO-cases^{###} are concerned. In other cases the individual tumor diagnosis is the basis for calculation, for example with incidence.

The foot notes describe the currentness of the data. The baseline statistics and survival data are updated annually. This yearly analysis comprises the Annual Report of the MCR. The time-delayed acquisition of data and the occasionally high DCO-rates indicate optimizing reserves, among others, because of current financial and legal conditions that hinder the analyses.

Clinics and physicians have access to essentially more detailed data, with which they can check, compare and in the best case optimize their own data and results.

We would be pleased to receive corrections, critique and useful suggestions. Just send an e-mail to tumor@ibe.med.uni-muenchen.de.

Munich Cancer Registry, May 2015

- [#] Base data has been collected since 1998. An increase in new diseases is apparent, which is an effect of two extensions in the MCR catchment area (from a base population of 2.51 million to 3.96 in 2002, and to 4.52 million in 2007). Death certificates from 2014 are incorporated into these analyses.
- ^{##} Due to the high frequency and good prognosis of non-malignant skin cancer (C44), no systematic ascertainment is performed for this diagnosis. C44 is not designated as a primary, but rather as a secondary tumor.
- ^{###} DCO (death certificate only) identifies a cancer case that first becomes available to the MCR through the death certificate. A high proportion of DCO cases (≥5%) in particular cancer types indicate insufficient participation of specific cancer specializations.

ICD-10 codes (ICD-10 2015) used for specifying cancer site

Code	Description
C25.-	Malignant neoplasm of pancreas
C25.0	Head of pancreas
C25.1	Body of pancreas
C25.2	Tail of pancreas
C25.3	Pancreatic duct
C25.4	Endocrine pancreas
C25.7	Other parts of pancreas
C25.8	Overlapping lesion of pancreas
C25.9	Pancreas, unspecified

INCIDENCE

Table 1

Patient cohorts by year of diagnosis including DCO cases and multiple primaries, and with proportion of deaths and active follow-up

Year of diagnosis	Cases n	DCO cases n	Prop. DCO %	Prop. mult. primaries %	Prop. deaths %	Prop. actively followed %
1998	309	97	31.4	8.4	97.7	99.7
1999	361	120	33.2	12.7	96.4	98.9
2000	323	126	39.0	10.5	97.5	100.0
2001	406	151	37.2	11.6	96.6	98.8
2002	663	272	41.0	17.2	96.7	99.5 #
2003	612	211	34.5	17.3	96.6	99.3
2004	663	215	32.4	15.7	95.8	99.2
2005	716	205	28.6	19.8	95.4	99.3
2006	734	201	27.4	17.8	95.2	99.6
2007	819	224	27.4	17.3	94.1	98.4 # ##
2008	882	240	27.2	20.6	94.3	96.3
2009	898	237	26.4	21.5	92.1	95.5
2010	936	219	23.4	20.2	91.3	96.0
2011	906	230	25.4	22.8	88.6	94.2
2012	920	226	24.6	21.6	81.0	93.3
2013	729	212	29.1	24.3	65.6	98.6 ###
1998-2013	10877	3186	29.3	18.7	91.2	97.4

The increases of incident cases in 2002 and 2007 reflect the expansion to additional registry areas.

Since 2007 the percentage of actively followed patients sharply declined compared to the previous years. This is a consequence of ambiguous data protection rules that currently forbid cancer registries in Bavaria to obtain the essential life status informations from competent registration offices.

Please be aware that data of recent annual patient cohorts may not yet be fully processed. Therefore, the presented figures and tables are potentially related to different time periods as pointed out in the respective headlines or legends.

Table 1a

Patient cohorts by year of diagnosis and gender
including DCO cases

Year of diagnosis	All n	Males n	Females n	Prop. males %
1998	309	139	170	45.0
1999	361	184	177	51.0
2000	323	153	170	47.4
2001	406	195	211	48.0
2002	663	311	352	46.9
2003	612	301	311	49.2
2004	663	296	367	44.6
2005	716	350	366	48.9
2006	734	371	363	50.5
2007	819	416	403	50.8
2008	882	415	467	47.1
2009	898	455	443	50.7
2010	936	446	490	47.6
2011	906	438	468	48.3
2012	920	469	451	51.0
2013	729	356	373	48.8
1998-2013	10877	5295	5582	48.7

Table 2

Incidence measures by year of diagnosis and gender including DCO cases
(with respect to registry area expansion from 2.51 to 3.96 m as of 2002,
and from 3.96 to 4.64 m as of 2007, respectively)

Year of diagnosis	Males n	Females n	Males Inc. raw	Fem. Inc. raw	Males Inc. WS	Fem. Inc. WS	Males Inc. ES	Fem. Inc. ES	Males Inc. BRD-S	Fem. Inc. BRD-S
1998	139	170	12.5	14.5	7.4	5.7	11.3	8.8	14.9	12.1
1999	184	177	16.4	14.9	9.6	5.6	14.8	8.8	20.1	12.3
2000	153	170	13.4	14.2	7.8	5.6	12.0	8.7	15.7	11.8
2001	195	211	16.8	17.3	9.7	7.1	14.7	10.9	19.1	14.5
2002	311	352	16.7	18.0	9.4	6.6	14.1	10.4	18.2	14.2
2003	301	311	16.1	15.8	8.8	6.3	13.3	9.7	17.3	12.7
2004	296	367	15.7	18.6	8.5	6.9	12.8	10.7	16.6	14.5
2005	350	366	18.5	18.4	9.6	7.1	14.5	10.9	19.1	14.4
2006	371	363	19.4	18.1	10.3	6.5	15.4	10.1	20.0	13.8
2007	416	403	18.8	17.5	9.8	6.5	14.8	10.0	19.1	13.2
2008	415	467	18.6	20.1	9.4	7.4	14.2	11.3	18.6	15.1
2009	455	443	20.4	19.0	10.1	6.8	15.3	10.5	19.9	14.1
2010	446	490	19.8	20.9	9.4	7.3	14.3	11.3	19.0	15.6
2011	438	468	19.2	19.8	9.0	7.0	13.6	10.8	17.8	14.6
2012	469	451	20.5	19.1	9.8	6.9	14.9	10.5	19.6	14.2
2013	356	373	15.6	15.8	7.2	5.4	11.2	8.4	14.9	11.6
1998-2013	5295	5582	17.8	18.0	9.2	6.6	13.9	10.2	18.2	13.8

The computation of the incidence measures includes all primaries, irrespective of first or subsequent malignancy.

Table 3

Age distribution parameters by year of diagnosis (All)
(incl. DCO)

Year of diagnosis	Cases n	Mean	Std. dev.	Min.	Max.	10%	25%	Median 50%	75%	90%
1998	309	71.8	12.5	28.2	98.1	55.0	62.9	73.5	80.4	86.6
1999	361	72.3	11.7	27.6	98.8	56.4	64.2	74.1	80.5	86.3
2000	323	71.1	13.0	21.7	98.5	54.0	61.8	73.1	80.4	86.9
2001	406	71.5	11.7	35.1	97.7	56.4	63.8	71.8	80.3	87.0
2002	663	72.2	11.8	35.3	98.6	56.1	63.7	73.2	80.9	87.3
2003	612	71.4	12.1	33.2	98.4	55.3	63.2	72.7	80.2	87.3
2004	663	72.4	11.4	38.5	100	57.6	64.6	72.5	81.4	86.6
2005	716	72.1	11.6	36.2	99.8	57.9	64.2	71.9	80.8	86.2
2006	734	72.4	11.9	12.3	97.7	57.8	64.8	73.7	81.5	86.3
2007	819	72.2	11.9	25.6	97.2	55.5	64.1	72.6	81.2	87.1
2008	882	72.7	12.2	22.9	98.5	56.3	65.5	73.3	81.9	87.1
2009	898	72.8	11.6	27.9	102	57.5	65.4	73.4	82.1	87.1
2010	936	73.1	11.3	16.9	98.6	57.7	66.5	74.0	81.8	86.7
2011	906	73.1	11.4	34.6	99.1	57.8	67.0	73.7	81.8	87.1
2012	920	72.6	11.7	0.0	101	57.2	66.3	73.7	80.8	86.4
2013	729	74.1	10.9	39.9	99.4	59.3	67.2	75.0	82.1	87.6
1998-2013	10877	72.5	11.7	0.0	102	56.9	64.9	73.4	81.3	86.9

Table 3a

Age distribution parameters by year of diagnosis (MALES)
(incl. DCO)

Year of diagnosis	Cases n	Mean	Std. dev.	Min.	Max.	10%	25%	Median 50%	75%	90%
1998	139	68.3	11.4	36.3	97.7	53.3	58.9	69.8	75.7	80.4
1999	184	69.0	11.7	27.6	93.0	53.9	61.3	69.2	78.0	84.1
2000	153	69.0	11.8	41.1	97.8	54.2	60.2	69.3	78.0	84.6
2001	195	68.7	11.7	35.1	94.0	55.0	61.3	68.5	78.1	84.6
2002	311	68.8	11.8	35.3	97.5	53.8	61.6	69.1	77.0	82.8
2003	301	69.4	11.3	33.2	98.0	55.1	63.0	69.3	77.0	82.9
2004	296	69.3	11.1	38.5	94.9	54.5	62.9	69.5	76.8	84.2
2005	350	69.7	10.8	36.2	98.5	56.3	62.4	69.1	78.2	83.7
2006	371	69.3	12.0	12.3	94.8	55.5	62.5	70.3	77.2	83.4
2007	416	69.5	11.7	25.6	95.5	53.3	62.1	69.8	77.9	85.1
2008	415	70.3	11.7	22.9	94.5	54.7	63.3	70.5	79.3	84.8
2009	455	70.5	11.1	29.0	102	55.6	63.4	70.9	78.5	85.1
2010	446	71.1	10.7	42.2	98.6	57.4	64.2	71.7	79.0	84.6
2011	438	71.3	11.0	38.8	96.2	56.4	64.9	72.4	78.7	84.6
2012	469	70.6	11.3	0.0	96.8	55.9	64.3	72.0	78.3	84.4
2013	356	72.5	10.3	45.1	98.1	59.3	64.9	73.0	79.3	86.3
1998-2013	5295	70.1	11.3	0.0	102	55.2	63.0	70.7	78.2	84.3

Table 3b

Age distribution parameters by year of diagnosis (FEMALES)
(incl. DCO)

Year of diagnosis	Cases n	Mean	Std. dev.	Min.	Max.	10%	25%	Median 50%	75%	90%
1998	170	74.6	12.7	28.2	98.1	56.5	66.1	77.6	84.2	87.4
1999	177	75.8	10.6	45.8	98.8	60.6	69.2	76.7	84.0	88.1
2000	170	73.1	13.8	21.7	98.5	53.8	65.5	76.7	81.5	87.5
2001	211	74.1	11.1	38.6	97.7	58.3	67.4	74.6	81.8	88.0
2002	352	75.2	11.0	38.1	98.6	61.0	68.2	76.7	82.4	88.2
2003	311	73.3	12.6	37.1	98.4	55.6	63.8	76.0	82.7	88.6
2004	367	74.8	11.0	38.8	100	60.1	67.1	75.9	83.3	88.0
2005	366	74.4	11.8	36.3	99.8	60.2	66.3	75.0	82.4	90.6
2006	363	75.5	11.1	32.2	97.7	60.4	68.5	76.9	84.5	87.9
2007	403	74.9	11.6	37.8	97.2	59.1	67.6	75.8	84.1	88.6
2008	467	74.8	12.2	23.8	98.5	58.7	67.7	76.0	84.5	88.0
2009	443	75.2	11.7	27.9	101	59.5	67.5	76.7	84.0	88.6
2010	490	74.9	11.5	16.9	97.6	59.6	69.4	76.2	83.7	87.3
2011	468	74.8	11.5	34.6	99.1	58.9	68.5	75.8	83.7	88.0
2012	451	74.6	11.8	19.5	101	59.1	68.7	75.5	83.0	88.2
2013	373	75.6	11.2	39.9	99.4	60.1	69.2	76.7	83.9	89.1
1998-2013	5582	74.8	11.7	16.9	101	59.0	67.8	76.1	83.6	88.2

Table 4

Age distribution by 5-year age group and gender for period 1998-2013
(incl. DCO)

Age at diagnosis Years	Cases n				Males			Females		
		%	Cum.%		n	%	Cum.%	n	%	Cum.%
0-4	1	0.0	0.0		1	0.0	0.0			0.0
5-9	0	0.0	0.0				0.0			0.0
10-14	1	0.0	0.0		1	0.0	0.0			0.0
15-19	3	0.0	0.0		1	0.0	0.1	2	0.0	0.0
20-24	4	0.0	0.1		1	0.0	0.1	3	0.1	0.1
25-29	10	0.1	0.2		6	0.1	0.2	4	0.1	0.2
30-34	14	0.1	0.3		6	0.1	0.3	8	0.1	0.3
35-39	46	0.4	0.7		25	0.5	0.8	21	0.4	0.7
40-44	110	1.0	1.7		64	1.2	2.0	46	0.8	1.5
45-49	236	2.2	3.9		150	2.8	4.8	86	1.5	3.0
50-54	438	4.0	7.9		262	4.9	9.8	176	3.2	6.2
55-59	703	6.5	14.4		424	8.0	17.8	279	5.0	11.2
60-64	1171	10.8	25.2		721	13.6	31.4	450	8.1	19.3
65-69	1503	13.8	39.0		857	16.2	47.6	646	11.6	30.8
70-74	1808	16.6	55.6		928	17.5	65.1	880	15.8	46.6
75-79	1724	15.8	71.5		817	15.4	80.5	907	16.2	62.8
80-84	1514	13.9	85.4		560	10.6	91.1	954	17.1	79.9
85+	1591	14.6	100.0		471	8.9	100.0	1120	20.1	100.0
All ages	10877	100.0			5295	100.0		5582	100.0	

Included in the statistics are 24.1% multiple primaries in males and 20.6% in females.

Table 5

Age-specific incidence, DCO rate and proportion of all cancers
for period 1998-2013

Age at diagnosis Years	Males n	Females n	Males Age- spec. incid.	Females Age- spec. incid.	Males DCO rate n=1304 %	Females DCO rate n=1881 %	Males Prop.all cancers n=158258 %	Females Prop.all cancers n=153136 %
0- 4	1		0.1	0.0	100.0		0.3	
5- 9			0.0	0.0				
10-14	1		0.1	0.0			0.6	
15-19	1	2	0.1	0.1			0.3	0.7
20-24	1	3	0.1	0.2			0.2	0.6
25-29	6	4	0.3	0.2			0.6	0.4
30-34	6	8	0.3	0.4		12.5	0.4	0.4
35-39	25	21	1.0	0.9	12.0	9.5	1.1	0.6
40-44	64	46	2.4	1.8	4.7	2.2	2.0	0.7
45-49	150	86	6.4	3.7	8.0	5.8	2.8	1.0
50-54	262	176	13.0	8.6	17.9	5.1	3.0	1.6
55-59	424	279	23.1	14.5	13.9	9.7	2.9	2.0
60-64	720	450	40.6	24.0	14.0	12.7	3.3	2.6
65-69	857	646	54.3	37.4	15.1	16.1	3.1	3.4
70-74	928	880	72.4	58.0	18.4	17.2	3.5	4.8
75-79	817	907	98.8	76.4	29.5	30.2	4.0	5.2
80-84	560	954	111.9	102.3	42.3	49.0	4.1	6.0
85+	471	1120	138.1	125.3	63.7	69.9	4.7	6.5
All ages	5294	5582			24.6	33.7	3.3	3.6
Incidence								
Raw			17.8	18.0				
WS			9.2	6.6				
ES			13.9	10.2				
BRD-S			18.2	13.8				

The age-specific incidence characterizes the disease risk in a particular age group. The age distribution depends on the patient population frequency in each age group and reflects the tangible clinical picture of everyday patients care (see following chart).

Table 6a

Standardized incidence ratio (SIR, with 95% confidence limits),
excess absolute risk (EAR) and DCO rate of second primaries
for period 1998-2013

MALES

Diagnosis	Observed n	Expected n	SIR	LCL 95%	UCL 95%	EAR	DCO %
C15 Oesophagus	2	1.0	2.1	0.3	7.5	3.2	
C16 Stomach	14	2.2	6.2	3.4	10.5 #	36.5	14.3
C17 Small intestine	4	0.3	15.2	4.1	38.8 #	11.6	
C18 Colon	15	5.4	2.8	1.6	4.6 #	29.8	20.0
C19-C20 Rectum	5	3.0	1.6	0.5	3.8	6.1	
C22 Liver	3	1.5	2.0	0.4	5.8	4.7	
C33-C34 Lung	19	6.5	2.9	1.8	4.6 #	38.9	31.6
C46,C49 Soft tissue	3	0.3	10.5	2.2	30.5 #	8.4	
C61 Prostate	28	16.5	1.7	1.1	2.5 #	35.8	46.4
C64 Kidney	6	1.9	3.1	1.1	6.8 #	12.7	
C67 Bladder	2	2.4	0.8	0.1	3.0	-1.2	
C82-C85 NHL	4	2.1	1.9	0.5	4.8	5.8	
Other primaries	9	5.4	1.7	0.8	3.1	11.1	33.3
Not observed	0	6.8	0.0	0.0	0.5 #	-21.0	
All mult. primaries	114	55.2	2.1	1.7	2.5 #	182.5	23.7

Patients 3031
 Median age at second malignancy (years) 72.2
 Person-years 3221
 Mean observation time (years) 1.1
 Median observation time (years) 0.5

The occurrence of second malignancy is statistically significant.

Observed second primaries with count 1 are pooled in category "Other primaries".

Table 6b

Standardized incidence ratio (SIR, with 95% confidence limits),
excess absolute risk (EAR) and DCO rate of second primaries
for period 1998-2013

FEMALES

Diagnosis		Observed n	Expected n	SIR	LCL 95%	UCL 95%	EAR	DCO %
C16	Stomach	9	1.5	6.1	2.8	11.7 #	24.1	33.3
C17	Small intestine	2	0.2	11.7	1.4	42.2 #	5.8	
C18	Colon	11	4.0	2.8	1.4	5.0 #	22.5	36.4
C19-C20	Rectum	4	1.7	2.4	0.6	6.0	7.3	50.0
C23-C24	Bile	6	0.6	10.3	3.8	22.5 #	17.3	16.7
C33-C34	Lung	12	2.7	4.5	2.3	7.8 #	29.8	33.3
C50	Breast	20	11.1	1.8	1.1	2.8 #	28.4	20.0
C54	Corpus uteri	4	2.1	1.9	0.5	4.8	5.9	50.0
C56	Ovary	10	1.6	6.3	3.0	11.6 #	26.8	70.0
C64	Kidney	3	1.0	3.0	0.6	8.9	6.4	33.3
C82-C85	NHL	3	1.5	2.0	0.4	5.9	4.8	33.3
C91-C96	Leukaemia	2	0.6	3.3	0.4	12.0	4.5	100.0
Other primaries		6	2.4	2.5	0.9	5.5	11.6	33.3
Not observed		0	7.2	0.0	0.0	0.5 #	-22.9	
All mult. primaries		92	38.0	2.4	2.0	3.0 #	172.3	35.9

Patients 3004
 Median age at second malignancy (years) 74.3
 Person-years 3133
 Mean observation time (years) 1.0
 Median observation time (years) 0.5

The occurrence of second malignancy is statistically significant.

Observed second primaries with count 1 are pooled in category "Other primaries".

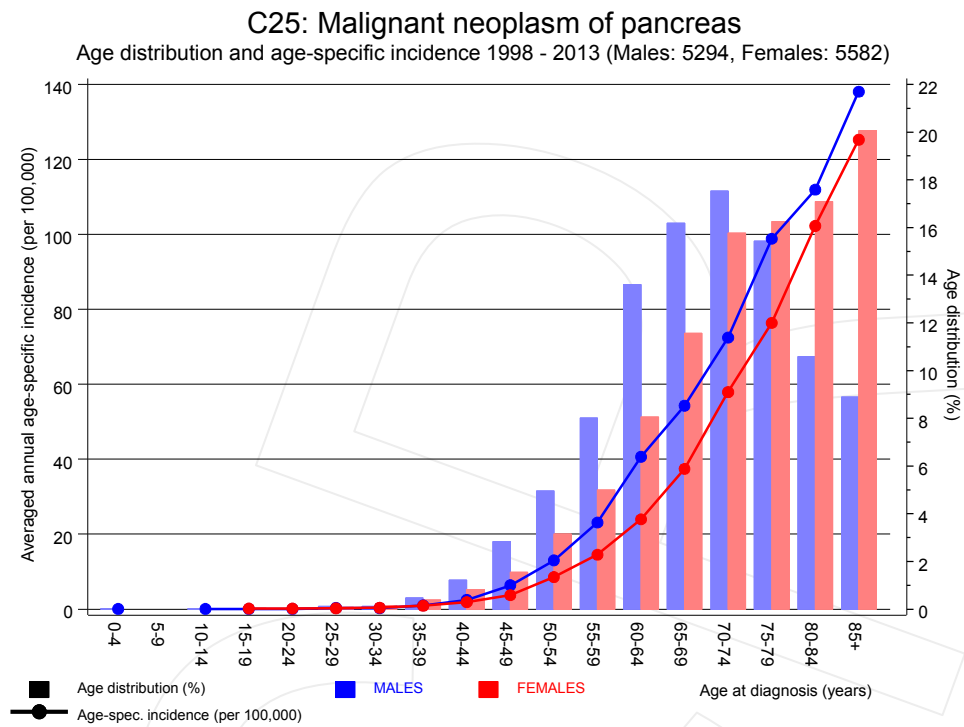


Figure 7. Age distribution and age-specific incidence

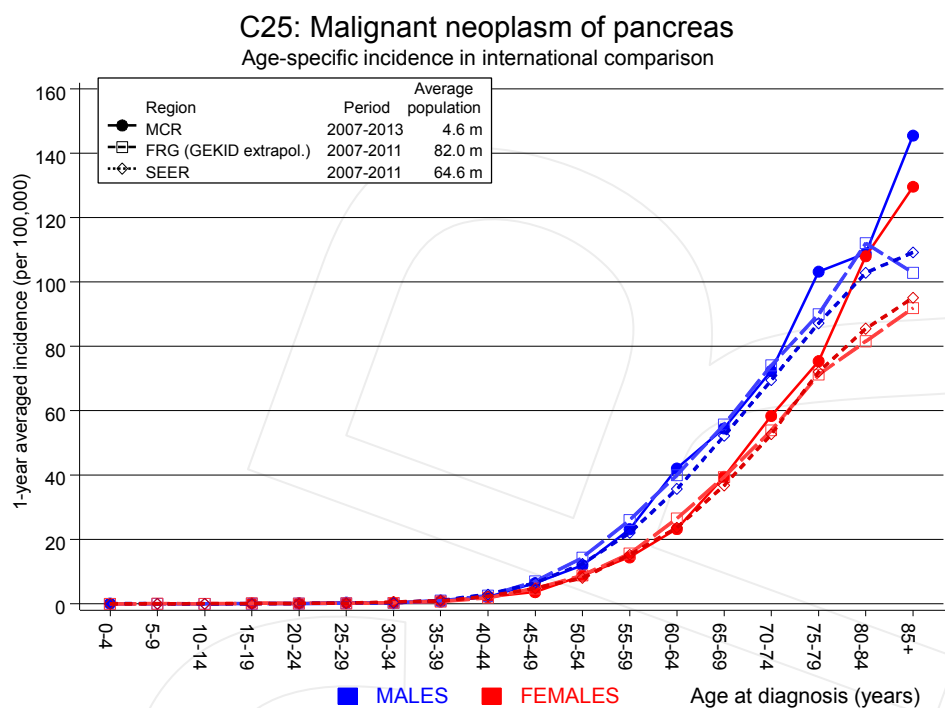


Figure 7a. Age-specific incidence in MCR registry areas compared to Germany (FRG, GEKID extrapolation) and SEER (Surveillance, Epidemiology, and End Results, USA).

Reference:

Extrapolated age-specific patient population of Germany, data status middle of 2010. Association of Population-based Cancer Registries in Germany (GEKID e.V.). Berlin, 2014. <http://www.gekid.de>. Last access: 02/11/2015

Surveillance, Epidemiology, and End Results (SEER) Program SEER*Stat Database: Incidence - SEER 18 Regs Research Data, released April 2014, based on the November 2013 submission. <http://www.seer.cancer.gov>.

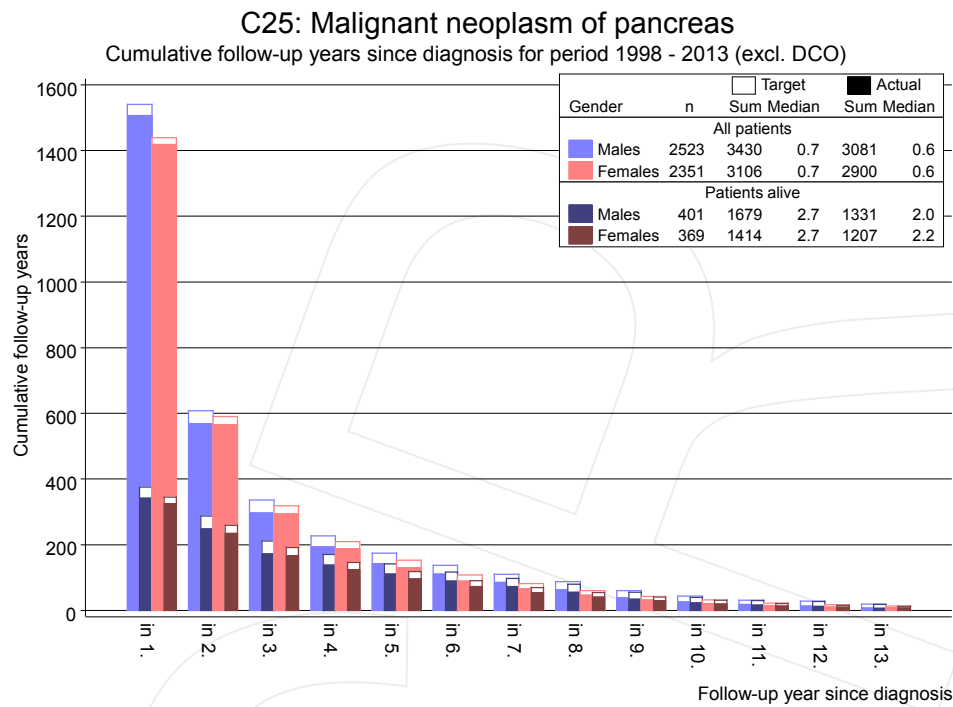
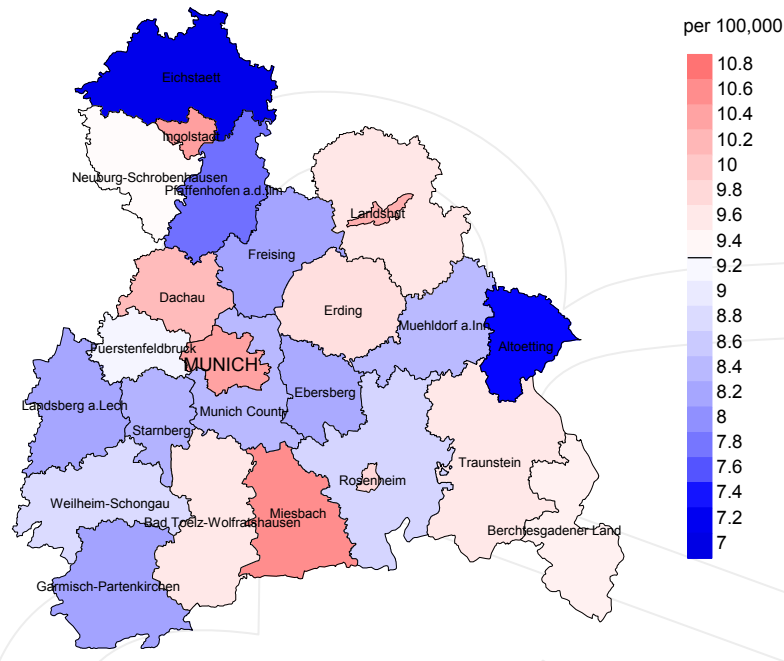


Figure 8. Cumulative follow-up years depending on time since diagnosis

The increase of the lost to follow-up rate can be interpreted as a consequence of a declining number of survivors over time.

Average incidence (world standard population) 2007 - 2013: Males



Average incidence (world standard population) 2007 - 2013: Females

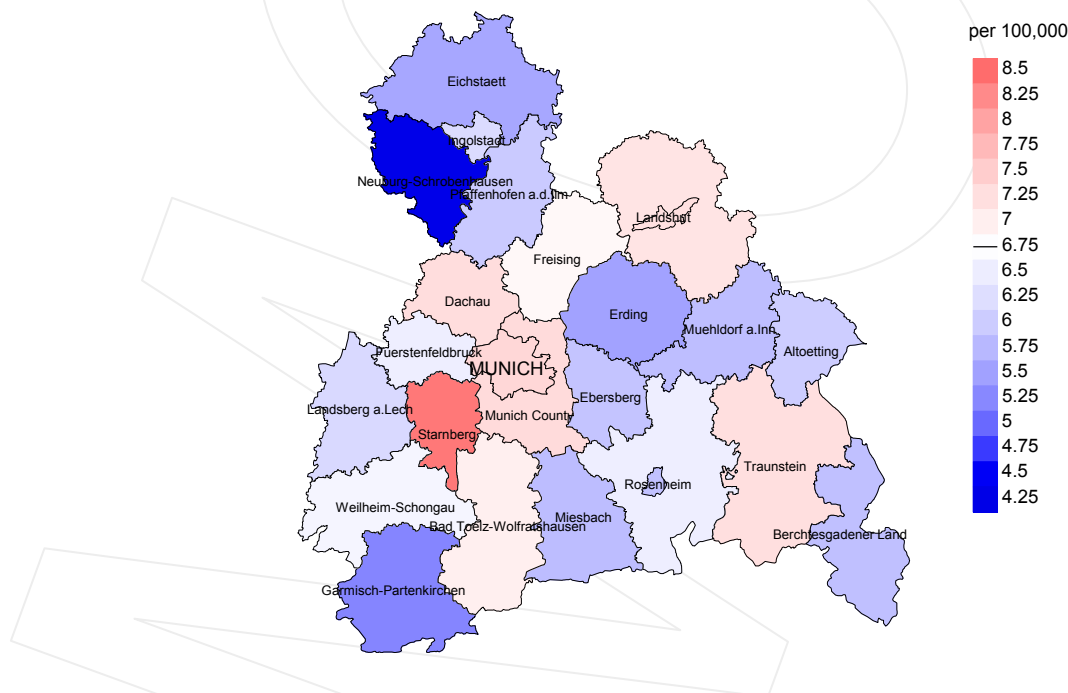
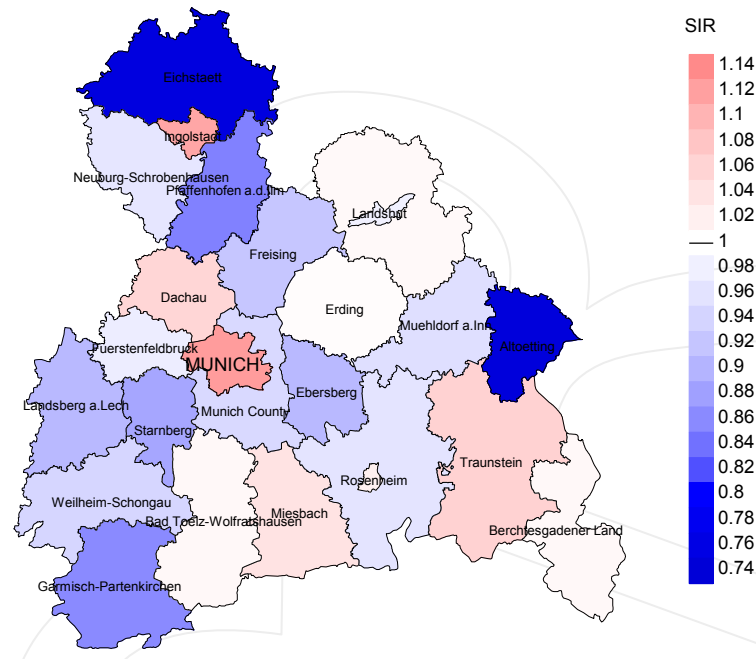


Figure 9a. Map of cancer incidence (world standard population, incl. DCO cases) by county averaged for period 2007 to 2013. According to their individual incidence rates, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population mean (males 9.3/100,000 WS N=2,994, females 6.8/100,000 WS N=3,095).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 64,928 female residents (averaged) in the period from 2007 to 2013 a total of 75 women were identified with newly diagnosed pancreas cancer. Therefore, the mean incidence rate for this cancer type in this area can be calculated at 5.9/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 4.1 and 8.3/100,000.

Standardized incidence ratio (SIR) 2007 - 2013: Males



Standardized incidence ratio (SIR) 2007 - 2013: Females

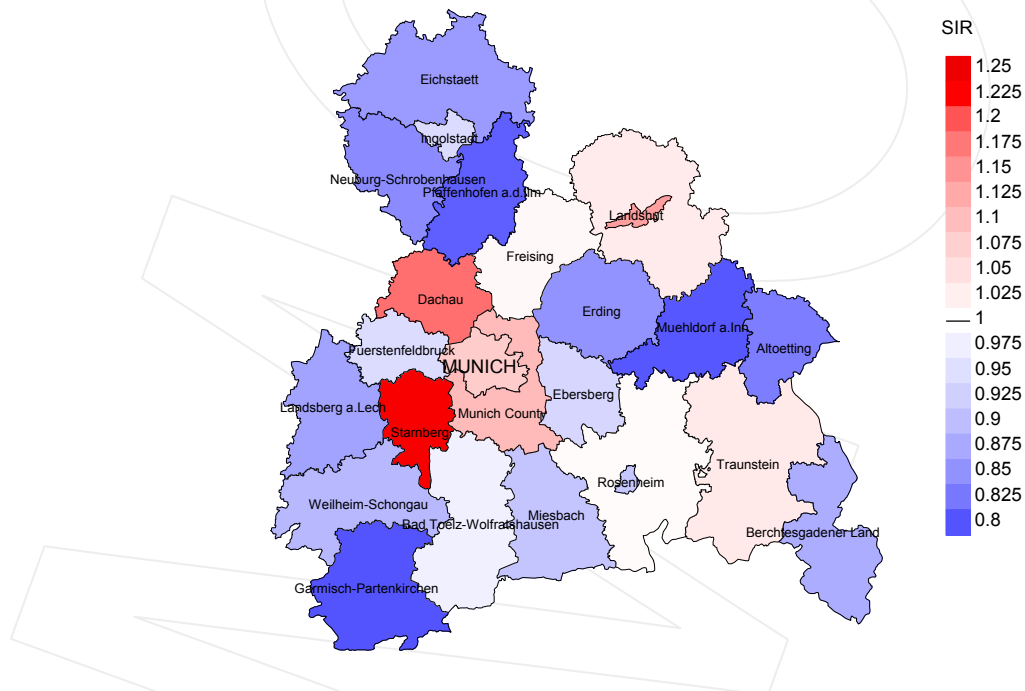


Figure 9b. Map of standardized incidence ratio (SIR, incl. DCO cases) by county averaged for period 2007 to 2013. According to their individual SIR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=2,994, females N=3,095).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 64,642 female residents (averaged) in the period from 2007 to 2013 a total of 75 women were identified with newly diagnosed pancreas cancer. Therefore, the mean standardized incidence ratio (SIR) for this cancer type in this area can be calculated at 0.94. Though, the value of this parameter may vary with an underlying probability of 99% between 0.68 and 1.25, and is therefore not statistically striking.

MORTALITY

Table 10a

Patient cohorts of incident cancers by year of diagnosis, follow-up status, proportion of DCO, deaths among the annual cohorts, and proportion of available death certificates (with respect to registry area expansion from 2.51 to 3.96 m as of 2002, and from 3.96 to 4.64 m as of 2007, respectively)

Year of diagnosis	Incident cases n	Prop. actively followed %	Prop. DCO %	Deaths n	Prop. deaths %	Prop. deaths with death certific. %
1998	309	99.7	31.4	302	97.7	95.0
1999	361	98.9	33.2	348	96.4	95.1
2000	323	100.0	39.0	315	97.5	97.1
2001	406	98.8	37.2	392	96.6	98.2
2002	663	99.5	41.0	641	96.7	98.1
2003	612	99.3	34.5	591	96.6	98.5
2004	663	99.2	32.4	635	95.8	98.1
2005	716	99.3	28.6	683	95.4	99.1
2006	734	99.6	27.4	699	95.2	98.9
2007	819	98.4	27.4	771	94.1	99.6
2008	882	96.3	27.2	832	94.3	99.2
2009	898	95.5	26.4	827	92.1	98.7
2010	936	96.0	23.4	855	91.3	98.6
2011	906	94.2	25.4	803	88.6	98.3
2012	920	93.3	24.6	745	81.0	98.1
2013	729	98.6	29.1	478	65.6	93.3
1998-2013	10877	97.4	29.3	9917	91.2	98.1

Table 10b

Annual cohorts of incident cancers and deaths, proportion of death certificates and cases deceased the same year of cancer diagnosis
(incl. DCO)
(with respect to registry area expansion from 2.51 to 3.96 m as of 2002,
and from 3.96 to 4.64 m as of 2007, respectively)

Year of diagnosis/ death	Incident cases n	Deaths n	Prop. deaths with death certific. %	Deaths in same year n	Prop. deaths in same year %
1998	309	314	96.5	176	57.0
1999	361	354	95.2	222	61.5
2000	323	336	97.0	192	59.4
2001	406	370	95.9	242	59.6
2002	663	495	98.6	391	59.0
2003	612	524	98.9	351	57.4
2004	663	524	98.1	368	55.5
2005	716	567	97.9	370	51.7
2006	734	642	99.2	410	55.9
2007	819	668	99.0	427	52.1
2008	882	707	99.6	474	53.7
2009	898	698	98.9	464	51.7
2010	936	775	99.4	486	51.9
2011	906	793	98.7	494	54.5
2012	920	767	99.2	482	52.4
2013	729	669	98.5	386	52.9
1998-2013	10877	9203	98.5	5935	54.6

Table 10c

Annual cohorts of deaths, proportion of cancer-related and non-cancer-related deaths, and cancer recorded on death certificates
(incl. DCO)

(with respect to registry area expansion from 2.51 to 3.96 m as of 2002,
and from 3.96 to 4.64 m as of 2007, respectively)

Year of death	Deaths n	Prop. cancer- related %	Prop. non-cancer- related %	Prop. cancer recorded on death certificate %
1998	314	90.8	9.2	99.0
1999	354	90.7	9.3	98.8
2000	336	94.3	5.7	98.8
2001	370	95.1	4.9	99.7
2002	495	95.8	4.2	98.8
2003	524	97.3	2.7	99.8
2004	524	98.1	1.9	99.2
2005	567	97.2	2.8	99.6
2006	642	98.0	2.0	99.2
2007	668	97.5	2.5	99.4
2008	707	97.7	2.3	98.9
2009	698	97.0	3.0	98.8
2010	775	97.5	2.5	98.6
2011	793	96.7	3.3	99.2
2012	767	96.5	3.5	99.3
2013	669	94.3	5.7	98.0
1998-2013	9203	96.3	3.7	99.1

Table 11a

Medians of age at death according to the grouping in Table 10

MALES

Year of death	Deaths n	Age at death (all causes) Years	Age at death (cancer-related) Years	Age at death (non-cancer-related) Years	Age at death (according to death certificate) Years
1998	144	69.8	69.8	73.0	69.8
1999	179	71.0	70.5	78.7	71.0
2000	162	70.2	69.5	80.7	70.2
2001	170	70.2	70.2	69.6	70.5
2002	232	69.6	69.4	76.5	69.6
2003	263	69.1	68.9	77.7	69.3
2004	254	70.3	70.3	73.7	70.3
2005	286	70.4	70.3	71.4	70.6
2006	312	71.1	71.2	66.8	71.1
2007	321	70.2	70.2	76.0	70.2
2008	362	71.4	71.4	70.2	71.4
2009	356	71.2	71.1	76.7	71.3
2010	380	72.3	72.2	76.4	72.4
2011	388	72.5	72.4	75.3	72.8
2012	385	72.9	72.8	77.6	73.1
2013	336	72.4	72.1	79.6	72.3
1998-2013	4530	71.3	71.1	76.8	71.3

Deaths of patients are considered to be cancer-related, in case that fact was recorded on the death certificate, or patients had suffered from metastasis or recurrence.

Table 11b

Medians of age at death according to the grouping in Table 10

FEMALES

Year of death	Deaths n	Age at death (all causes) Years	Age at death (cancer-related) Years	Age at death (non-cancer-related) Years	Age at death (according to death certificate) Years
1998	170	76.6	75.4	80.1	76.9
1999	175	79.2	79.1	80.3	79.6
2000	174	76.7	76.3	80.2	77.1
2001	200	75.5	75.2	83.7	75.9
2002	263	77.7	77.2	88.2	77.7
2003	261	77.1	76.9	85.6	77.2
2004	270	77.1	77.1	74.7	77.1
2005	281	75.8	75.6	84.3	75.9
2006	330	76.8	76.8	76.2	76.9
2007	347	75.8	75.7	78.2	75.8
2008	345	76.1	76.0	82.4	76.1
2009	342	76.8	76.6	86.4	76.8
2010	395	76.9	76.7	82.7	76.9
2011	405	76.6	76.6	77.7	76.7
2012	382	76.5	76.0	84.6	76.6
2013	333	76.1	75.7	88.3	76.1
1998-2013	4673	76.7	76.5	83.0	76.8

By 2010, life expectancy for a newborn male in Germany is 77.5 years compared with 82.6 years for his female counterpart.

Deaths of patients are considered to be cancer-related, in case that fact was recorded on the death certificate, or patients had suffered from metastasis or recurrence.

Table 12a

Mortality measures (cancer-related death) and mortality-incidence-index
by year of death

MALES

Year of death	Deaths n	Mort. raw	MI-Index raw	Mort. WS	MI-Index WS	Mort. ES	MI-Index ES	Mort. BRD-S	MI-Index BRD-S
1998	134	12.1	0.96	7.2	0.98	11.0	0.97	14.7	0.99
1999	161	14.4	0.88	8.4	0.87	13.0	0.88	17.7	0.88
2000	155	13.6	1.01	7.8	1.00	12.0	1.00	16.1	1.03
2001	162	14.0	0.83	7.9	0.81	12.4	0.84	16.4	0.86
2002	220	11.8	0.71	6.6	0.71	10.1	0.71	13.1	0.72
2003	258	13.8	0.86	7.5	0.85	11.3	0.85	14.6	0.84
2004	250	13.3	0.84	7.0	0.82	10.7	0.83	14.2	0.86
2005	277	14.6	0.79	7.5	0.78	11.4	0.79	15.5	0.81
2006	305	15.9	0.82	8.0	0.78	12.2	0.79	16.4	0.82
2007	311	14.0	0.75	7.2	0.73	10.9	0.73	14.2	0.74
2008	356	16.0	0.86	7.9	0.84	12.0	0.85	16.1	0.86
2009	343	15.4	0.75	7.7	0.76	11.6	0.76	15.0	0.75
2010	369	16.4	0.83	7.9	0.84	12.0	0.84	15.9	0.83
2011	371	16.2	0.85	7.5	0.84	11.5	0.85	15.3	0.86
2012	372	16.3	0.79	7.5	0.77	11.5	0.77	15.4	0.79
2013	312	13.7	0.88	6.5	0.90	10.0	0.89	12.9	0.87
1998-2013	4356	14.7	0.82	7.4	0.81	11.4	0.82	15.0	0.83

Table 12b

Mortality measures (cancer-related death) and mortality-incidence-index
by year of death

FEMALES

Year of death	Deaths n	Mort. raw	MI-Index raw	Mort. WS	MI-Index WS	Mort. ES	MI-Index ES	Mort. BRD-S	MI-Index BRD-S
1998	151	12.8	0.89	5.2	0.91	8.0	0.91	10.8	0.90
1999	160	13.5	0.90	4.7	0.84	7.6	0.86	11.1	0.90
2000	162	13.5	0.95	5.2	0.93	8.2	0.95	11.0	0.94
2001	190	15.6	0.90	6.2	0.88	9.7	0.89	13.0	0.90
2002	254	13.0	0.72	4.7	0.71	7.4	0.71	10.2	0.72
2003	252	12.8	0.81	4.9	0.78	7.6	0.79	10.2	0.81
2004	264	13.4	0.72	4.8	0.69	7.5	0.70	10.3	0.71
2005	274	13.8	0.75	5.3	0.74	8.1	0.75	10.8	0.75
2006	324	16.1	0.89	5.7	0.88	9.0	0.89	12.4	0.90
2007	340	14.7	0.84	5.4	0.83	8.3	0.83	11.3	0.85
2008	335	14.4	0.72	5.2	0.70	8.1	0.72	10.8	0.71
2009	334	14.4	0.75	5.0	0.74	7.8	0.74	10.7	0.75
2010	387	16.5	0.79	5.8	0.79	9.0	0.80	12.4	0.80
2011	396	16.8	0.85	5.6	0.80	8.8	0.81	12.3	0.84
2012	368	15.6	0.82	5.4	0.78	8.4	0.80	11.4	0.81
2013	319	13.5	0.86	4.7	0.87	7.3	0.86	9.9	0.86
1998-2013	4510	14.5	0.81	5.2	0.79	8.2	0.80	11.1	0.81

Table 13

Age distribution of age at death (cancer-related) for period 1998-2013
(incl. multiple primaries)

Age at death Years	Cases			Males			Females		
	n	%	Cum.%	n	%	Cum.%	n	%	Cum.%
0-4	1	0.0	0.0	1	0.0	0.0			0.0
5-9	0	0.0	0.0			0.0			0.0
10-14	0	0.0	0.0			0.0			0.0
15-19	1	0.0	0.0	1	0.0	0.0			0.0
20-24	1	0.0	0.0	1	0.0	0.1			0.0
25-29	3	0.0	0.1	1	0.0	0.1	2	0.0	0.0
30-34	6	0.1	0.1	4	0.1	0.2	2	0.0	0.1
35-39	26	0.3	0.4	17	0.4	0.6	9	0.2	0.3
40-44	74	0.8	1.3	43	1.0	1.6	31	0.7	1.0
45-49	155	1.7	3.0	100	2.3	3.9	55	1.2	2.2
50-54	326	3.7	6.7	195	4.5	8.3	131	2.9	5.1
55-59	561	6.3	13.0	343	7.9	16.2	218	4.8	9.9
60-64	918	10.4	23.4	562	12.9	29.1	356	7.9	17.8
65-69	1260	14.2	37.6	743	17.0	46.1	517	11.5	29.3
70-74	1498	16.9	54.5	775	17.8	63.9	723	16.0	45.3
75-79	1459	16.5	70.9	686	15.7	79.7	773	17.1	62.4
80-84	1299	14.6	85.6	502	11.5	91.2	797	17.7	80.1
85+	1281	14.4	100.0	384	8.8	100.0	897	19.9	100.0
All ages	8869	100.0		4358	100.0		4511	100.0	

Included in the statistics are 24.1% multiple primaries in males and 20.6% in females.

Table 14

Age-specific mortality (cancer-related) and proportion of all cancers
for period 1998-2013
(incl. multiple primaries)

Age at death Years	Males n	Females n	Males Age- spec. mortal.	MI-index	Females Age- spec. mortal.	MI-index	Males Prop.all cancers %	Females Prop.all cancers %
0- 4	1		0.1	1.00	0.0		3.0	
5- 9			0.0		0.0			
10-14			0.0		0.0			
15-19	1		0.1	1.00	0.0		2.2	
20-24	1		0.1	1.00	0.0		1.1	
25-29	1	2	0.0	0.17	0.1	0.50	0.9	1.7
30-34	4	2	0.2	0.67	0.1	0.25	2.2	0.9
35-39	17	9	0.7	0.68	0.4	0.43	4.3	1.7
40-44	43	31	1.6	0.67	1.2	0.67	5.0	2.7
45-49	100	55	4.2	0.67	2.4	0.64	5.5	2.7
50-54	195	131	9.7	0.74	6.4	0.74	5.9	4.2
55-59	343	218	18.7	0.81	11.3	0.78	5.8	4.6
60-64	562	356	31.7	0.78	19.0	0.79	6.3	5.5
65-69	743	517	47.1	0.87	30.0	0.80	6.2	6.2
70-74	775	723	60.5	0.84	47.6	0.82	5.7	7.3
75-79	686	773	83.0	0.84	65.1	0.85	5.2	7.2
80-84	502	797	100.3	0.90	85.4	0.84	4.6	7.1
85+	384	897	112.6	0.82	100.4	0.80	4.3	6.6
All ages	4358	4511					5.4	6.2
Mortality								
Raw			14.7	0.82	14.5	0.81		
WS			7.4	0.81	5.2	0.79		
ES			11.4	0.82	8.2	0.80		
BRD-S			15.0	0.83	11.1	0.81		
PYLL-70								
per 100,000			67.6		43.4			
ES			59.4		36.5			
AYLL-70			9.0		8.7			

The rates underestimate the prognosis if other synchronous cancers are prognostic unfavorable.

Table 15a

Multiple primaries in deaths in period 1998-2013
MALES

Diagnosis	Total n	Total %↓	Pre n	Pre ←%	Syn- chron ±30d n	Syn- chron ±30d ←%	Post n	Post ←%
C09-C10 Oropharynx	16	1.6	14	87.5			2	12.5
C16 Stomach	61	5.9	29	47.5	21	34.4	11	18.0
C18 Colon	113	11.0	84	74.3	20	17.7	9	8.0
C19-C20 Rectum	51	5.0	37	72.5	11	21.6	3	5.9
C32 Larynx	17	1.7	14	82.4	2	11.8	1	5.9
C33-C34 Lung	65	6.3	30	46.2	19	29.2	16	24.6
C43 Malign. melanoma	55	5.4	51	92.7	2	3.6	2	3.6
C44 Skin others	61	5.9	49	80.3	5	8.2	7	11.5
C61 Prostate	299	29.1	256	85.6	15	5.0	28	9.4
C62 Testis	13	1.3	13	100.0				
C64 Kidney	33	3.2	26	78.8	6	18.2	1	3.0
C67 Bladder	84	8.2	73	86.9	5	6.0	6	7.1
C70-C72 CNS cancer	16	1.6	8	50.0	1	6.3	7	43.8
C82-C85 NHL	29	2.8	25	86.2	4	13.8		
C90 Mult. myeloma	11	1.1	7	63.6	2	18.2	2	18.2
C91-C96 Leukaemia	12	1.2	6	50.0	3	25.0	3	25.0
Other primaries	91	8.9	52	57.1	25	27.5	14	15.4
All mult. primaries	1027	100.0	774	75.4	141	13.7	112	10.9

Multiple primaries with number of cases 1 to 10 are pooled in category "Other primaries".

ICD-10 C44 (Other malignant neoplasms of skin) is not systematically recorded by MCR and therefore not considered for evaluation as a particular primary but at least as a multiple malignancy.

Table 15b

Multiple primaries in deaths in period 1998-2013
FEMALES

Diagnosis		Total n	Total %↓	Pre n	Pre ←%	Syn- chron ±30d n	Syn- chron ←%	Post n	Post ←%
C16	Stomach	44	4.9	23	52.3	16	36.4	5	11.4
C18	Colon	98	10.8	70	71.4	18	18.4	10	10.2
C19-C20	Rectum	37	4.1	29	78.4	4	10.8	4	10.8
C33-C34	Lung	41	4.5	15	36.6	8	19.5	18	43.9
C43	Malign. melanoma	39	4.3	37	94.9	1	2.6	1	2.6
C44	Skin others	34	3.8	31	91.2	2	5.9	1	2.9
C50	Breast	295	32.6	266	90.2	11	3.7	18	6.1
C53	Cervix uteri	22	2.4	18	81.8	2	9.1	2	9.1
C54	Corpus uteri	57	6.3	54	94.7	2	3.5	1	1.8
C56	Ovary	45	5.0	24	53.3	7	15.6	14	31.1
C64	Kidney	33	3.6	27	81.8	5	15.2	1	3.0
C67	Bladder	30	3.3	28	93.3	1	3.3	1	3.3
C70-C72	CNS cancer	13	1.4	10	76.9	2	15.4	1	7.7
C82-C85	NHL	17	1.9	13	76.5	3	17.6	1	5.9
C91-C96	Leukaemia	10	1.1	5	50.0	3	30.0	2	20.0
Other primaries		91	10.0	60	65.9	20	22.0	11	12.1
All mult. primaries		906	100.0	710	78.4	105	11.6	91	10.0

Multiple primaries with number of cases 1 to 9 are pooled in category "Other primaries".

ICD-10 C44 (Other malignant neoplasms of skin) is not systematically recorded by MCR and therefore not considered for evaluation as a particular primary but at least as a multiple malignancy.

Table 16

Age-specific mortality (cancer-related) and proportion of all cancers
for period 1998-2013
(Singular primaries only *)

Age at death Years	Males n	Females n	Males Age- spec. mortal.	MI-index	Females Age- spec. mortal.	MI-index	Males Prop.all cancers %	Females Prop.all cancers %
0- 4	1		0.1	1.00	0.0		3.6	
5- 9			0.0		0.0			
10-14			0.0		0.0			
15-19	1		0.1	1.00	0.0		2.4	
20-24	1		0.1	1.00	0.0		1.2	
25-29	1	2	0.0	0.17	0.1	0.50	1.0	1.8
30-34	4	2	0.2	0.67	0.1	0.25	2.2	1.0
35-39	16	8	0.6	0.67	0.3	0.44	4.3	1.7
40-44	40	27	1.5	0.69	1.1	0.71	5.1	2.7
45-49	95	45	4.0	0.67	1.9	0.61	5.8	2.6
50-54	182	122	9.0	0.76	5.9	0.75	6.3	4.7
55-59	309	198	16.8	0.82	10.3	0.79	6.1	4.9
60-64	499	321	28.2	0.78	17.1	0.81	6.7	6.0
65-69	621	438	39.3	0.88	25.4	0.81	6.4	6.5
70-74	613	608	47.9	0.84	40.0	0.84	5.7	7.8
75-79	533	634	64.5	0.87	53.4	0.84	5.3	7.4
80-84	376	661	75.1	0.90	70.9	0.83	4.6	7.4
85+	297	747	87.1	0.83	83.6	0.81	4.4	6.8
All ages	3589	3813					5.6	6.5
Mortality								
Raw			12.1	0.83	12.3	0.81		
WS			6.2	0.82	4.5	0.80		
ES			9.4	0.83	7.0	0.80		
BRD-S			12.3	0.83	9.4	0.81		
PYLL-70								
per 100,000			61.5		38.8			
ES			54.1		32.7			
AYLL-70			9.3		8.8			

* See corresponding tables with multiple primaries.

Table 17

Age-specific mortality (cancer-related) and proportion of all cancers
for period 1998-2013
(**Single primaries only ***)

Age at death Years	Males n	Females n	Males Age- spec. mortal.	MI-index	Females Age- spec. mortal.	MI-index	Males Prop.all cancers %	Females Prop.all cancers %
0- 4	1		0.1	1.00	0.0		3.7	
5- 9			0.0		0.0			
10-14			0.0		0.0			
15-19	1		0.1	1.00	0.0		2.4	
20-24	1		0.1	1.00	0.0		1.3	
25-29	1	2	0.0	0.17	0.1	0.50	1.1	1.9
30-34	4	2	0.2	0.67	0.1	0.25	2.3	1.1
35-39	16	7	0.6	0.67	0.3	0.44	4.5	1.6
40-44	39	26	1.5	0.67	1.0	0.68	5.2	2.8
45-49	93	43	3.9	0.69	1.9	0.59	6.1	2.8
50-54	178	121	8.8	0.75	5.9	0.76	6.8	5.2
55-59	306	194	16.7	0.82	10.1	0.79	6.6	5.4
60-64	490	318	27.6	0.79	17.0	0.82	7.4	6.9
65-69	605	430	38.3	0.88	24.9	0.81	7.2	7.6
70-74	599	593	46.8	0.84	39.1	0.85	6.7	9.0
75-79	518	620	62.7	0.87	52.2	0.84	6.5	8.6
80-84	362	652	72.4	0.89	69.9	0.83	5.7	8.8
85+	288	735	84.5	0.81	82.2	0.80	5.3	7.8
All ages	3502	3743					6.5	7.5
Mortality								
Raw			11.8	0.83	12.1	0.81		
WS			6.1	0.82	4.4	0.80		
ES			9.2	0.82	6.8	0.80		
BRD-S			12.0	0.83	9.2	0.81		
PYLL-70								
per 100,000			60.4		38.0			
ES			53.2		32.0			
AYLL-70			9.3		8.8			

* See corresponding tables with multiple primaries.

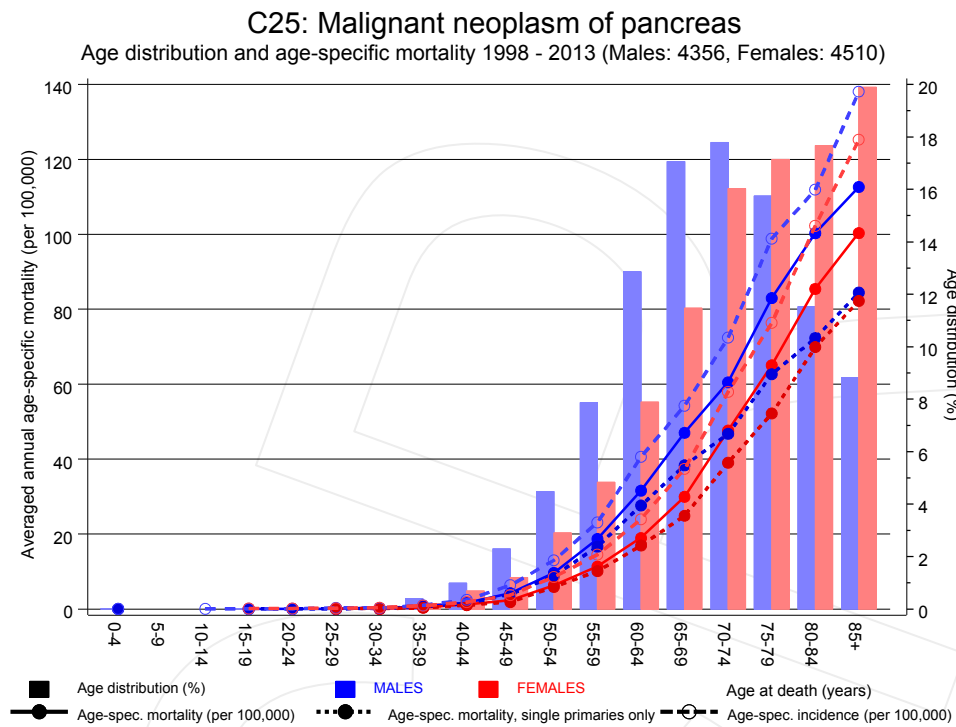
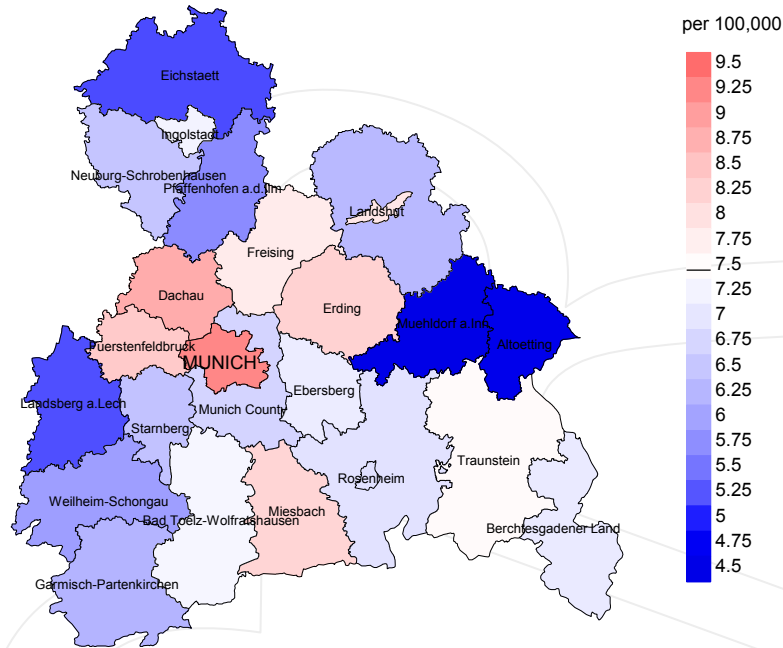


Figure 18. Distribution of age at death (bars) and age-specific mortality (all patients: solid line, patients with single primaries: dotted line). The age-specific incidence is additionally plotted for comparison (dashed line).

The difference between age at diagnosis (Table 3) and age at pancreas cancer-related death (see Table 10) should be considered.

Average mortality (world standard population) 2007 - 2013: Males



Average mortality (world standard population) 2007 - 2013: Females

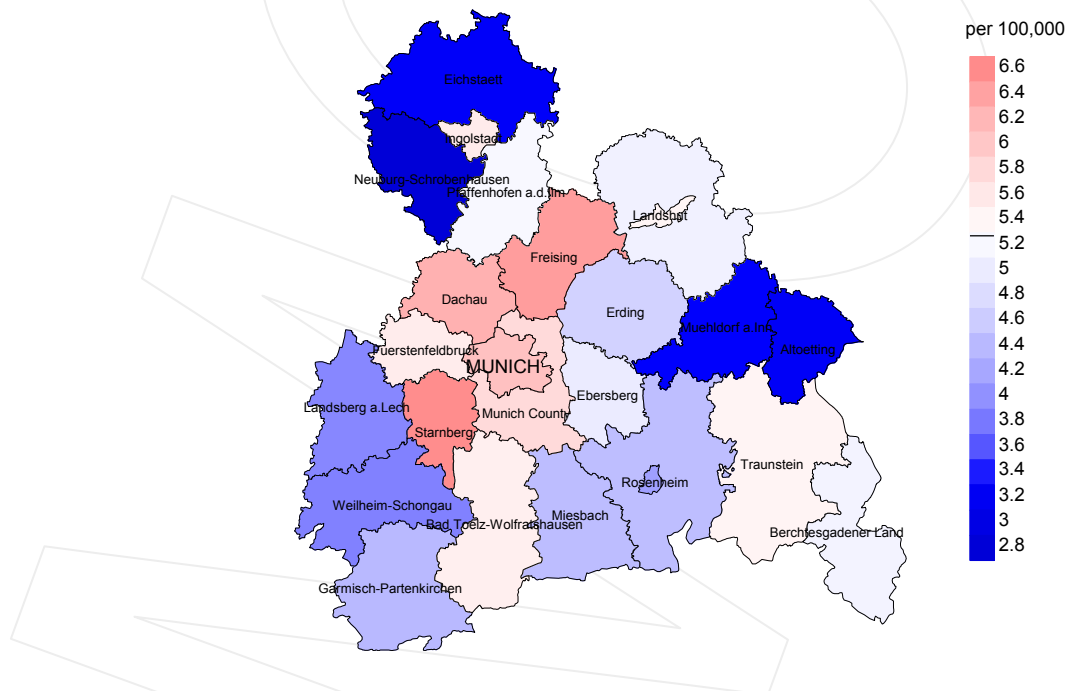
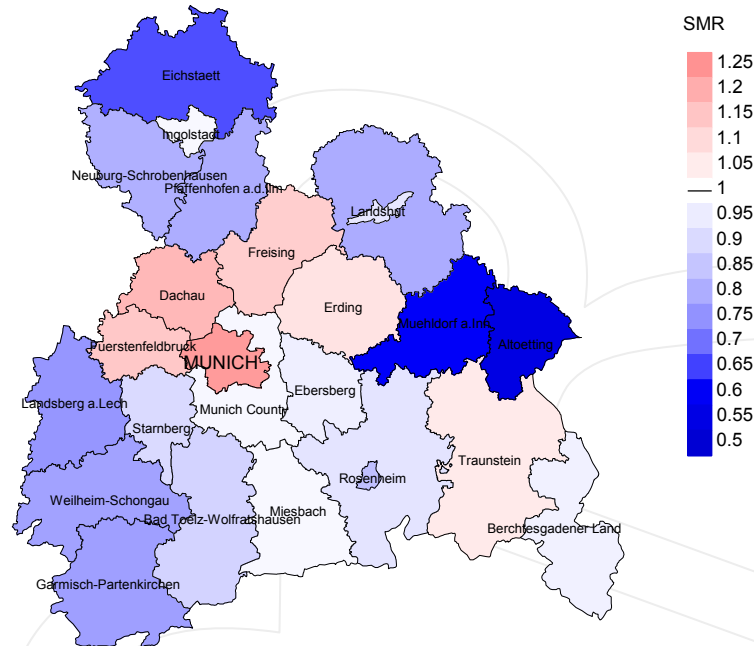


Figure 19a. Map of cancer mortality (world standard population) by county averaged for period 2007 to 2013. According to their individual mortality rates, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population mean (males 7.5/100,000 WS N=2,428, females 5.3/100,000 WS N=2,467).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 64,928 female residents (averaged) in the period from 2007 to 2013 a total of 67 women died from pancreas cancer. Therefore, the mean mortality rate for this cancer type in this area can be calculated at 5.0/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 3.4 and 7.2/100,000.

Standardized mortality ratio (SMR) 2007 - 2013: Males



Standardized mortality ratio (SMR) 2007 - 2013: Females

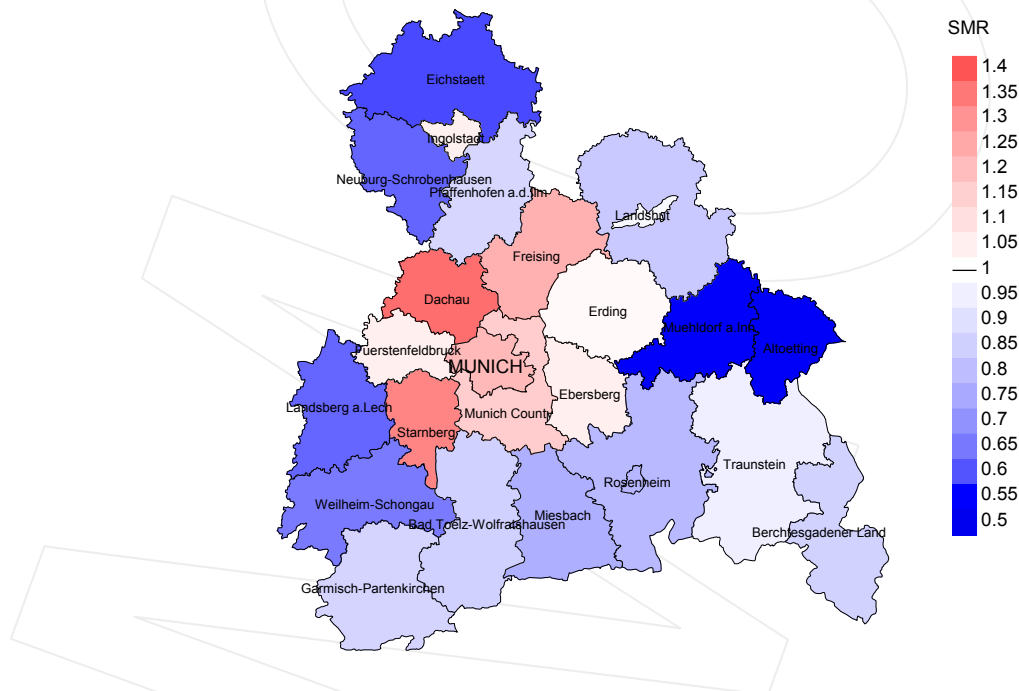


Figure 19b. Map of standardized mortality ratio (SMR, incl. DCO cases) by county averaged for period 2007 to 2013. According to their individual SMR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=2,428, females N=2,467).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 64,642 female residents (averaged) in the period from 2007 to 2013 a total of 67 women died from pancreas cancer. Therefore, the mean standardized mortality ratio (SMR) for this cancer type in this area can be calculated at 1.05. Though, the value of this parameter may vary with an underlying probability of 99% between 0.75 and 1.43, and is therefore not statistically striking.

Statistical Notes

In all tables and figures the respective reference values should be carefully considered. The incidence rates include diagnoses (with multiple primary), and death certificate only (DCO) cases. For mortality statistics patients, diagnoses and progressive course of disease are presented. In the calculations, all courses of disease are considered whereby progressions occurred and/or death certificate identified progressive cancers were ascertained. Additionally there are three groups of disease course to consider:

1. All multiple primaries included

The mortality statistic describes the tumor-specific death, independent of any malignancy. The patient perspective, induced secondary malignancies, and the problem of multiple malignancies from the same primary tumor all have reasons for their inclusion.

2. First singular primary (no information about other prior or synchronous malignancy)

The mortality statistic describes the cancer-related death for patients who have no therapeutic restrictions due to a previous or synchronous cancer. These statistics are comparable to studies that have exclusion criteria based on a second malignancy.

3. Single primary (no information about other prior, syn- or metachronous malignancy)

The mortality statistic describes the tumor-specific death that occurs without any impact through secondary primaries, earlier, synchronous, later or induced. Precisely the difference between disease group 1 and 2 highlight the magnitude of the problem of secondary malignancies.

For this reason differences appear concerning official mono-causal mortality statistics. To judge the maximum deviation, 2 further tables are presented. In the first table the distribution of secondary malignancies before, at or after the described cancer are shown, that could be an alternative cause of death. In the second table, the age-specific mortality rates for all courses of disease, without designation of secondary malignancies are shown.

A previously minimally acknowledged statistic is the **age at death**, which allows for a good assessment of the quality of classification of the apparent tumor-specific death. For assumed tumor-independent deaths, the age of death should be estimated from the age of diagnosis and the normal life expectancy, whereas tumor-dependent deaths can be estimated from the age of diagnosis plus the average tumor-specific life expectancy. The comparison of different tumors demonstrates this association, if the causes of cancer and the competing cause of death are independent of each other (e.g. breast and colon versus head/neck and lung).

The index from mortality and incidence (Mortality-Incidence ratio, **MI-index**) is a statistic that allows for the evaluation of the quality of data. For diseases with poor prognoses, comparable values are obtained from all age groups, because to a large extent, the numerator and denominator contain the same cases. For tumors with a good prognosis, increasing and decreasing incidence and age-specific differences in prognosis can more strongly alter the MI- index. Additionally, attention should be paid to the confidence intervals where fewer cases are reported.

The complexity of problems identified here emphasizes the importance of relative survival data for the appropriate analysis of long term results.

As a measurement of the burden of disease, the number of potential life years loss due to premature deaths in a cohort can be calculated (**PYLL**, potential years of life lost, standardized per 100,000 persons or per European standard) as well as the average loss of life years per individual (**AYLL**, average years of life lost). Depending upon the analytic aim (health economy, prevention, health care research) different methods exist for the generation of these measurements. In the results presented here, the age for a premature death is considered to be before 70 years, according to the guidelines of the OECD and the WHO (as seen in the abbreviation PYLL-70 or AYLL-70).

Shortcuts

FRG	Federal Republic of Germany
GEKID	Association of Population-based Cancer Registries in Germany (Gesellschaft der epidemiologischen Krebsregister in Deutschland e.V.)
MCR	Munich Cancer Registry (Tumorregister München)
SEER	Surveillance, Epidemiology, and End Results (USA)
AYLL-70	Average years of life lost prior to age 70 given a person dies before that age
BRD-S	German standard population
DCO	Death certificate only
EAR	Excess absolute risk = excess cancer cases (O - E) per 10,000 person-years
ES	European standard population (old)
LCL	Lower confidence limit
MI-index	Ratio between mortality and incidence
PYLL-70	Potential years of life lost prior to age 70 given a person dies before that age
SIR	Standardized incidence ratio
SMR	Standardized mortality ratio
UCL	Upper confidence limit
WS	World standard population

Recommended Citation

Munich Cancer Registry. Baseline statistics C25: Pancreas cancer [Internet]. 2015 [updated 2015 May 19; cited 2015 Jul 1]. Available from: http://www.tumorregister-muenchen.de/en/facts/base/base_C25__E.pdf

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