Munich Cancer Registry



- Survival
- Selection Matrix
- ► Homepage

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

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

Cancer statistics: Baseline statistics

C05.1, C05.2, C09-C14: Pharynx cancer

Year of diagnosis	1998-2011
Patients	3049
Diseases	3089
Creation date	04/02/2013
Export date	01/03/2013
Population	4.5 m



http://www.tumorregister-muenchen.de/en/facts/base/base_C0914E.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 4.5 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, April 2013

- [#] 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 2011 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.

Some remarks regarding this cancer type

As a general rule, these few results from the TRM form the basis of sophisticated analyses. For head and neck tumors this is not the case. Therefore the results for head and neck tumors should be interpreted with caution. In part this is due to problems of classification because of limited specific details of locality. Additionally, with advanced tumors in a close topographic location it is often not possible to determine the exact ICD localization of a tumor.

ICD-10 codes used for specifying cancer site

ICD-10	Description
C05.1	Soft palate
C05.2	Uvula
C09	Tonsil
C10	Oropharynx
	excl. topography code C10.1 Anterior surface of epiglottis
C11	Nasopharynx
C12	Piriform sinus
C13	Hypopharynx
C14	Lip, oral cavity and pharynx

INCIDENCE

Table 1

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

		DCO	Prop.	Prop. mult.	Prop.	Prop. actively
Year of	Cases #	cases	DCO	primaries	deaths	followed
diagnosis	n	n	%	2 8	00	8
1998	145	7	4.8	26.2	82.1	100.0
1999	162	8	4.9	22.8	79.6	98.8
2000	137	5	3.6	26.3	81.0	97.1
2001	145	8	5.5	26.9	73.8	95.9
2002	227	20	8.8	29.1	72.2	98.2
2003	243	5	2.1	31.3	75.3	98.4
2004	210	8	3.8	27.1	73.3	98.6
2005	262	14	5.3	29.4	63.4	97.3
2006	235	5	2.1	26.0	62.1	97.9
2007	271	26	9.6	24.4	60.1	91.1 ##
2008	296	12	4.1	27.0	56.1	81.1
2009	278	8	2.9	26.6	55.8	83.1
2010	260	16	6.2	26.2	43.8	85.4
2011	218	15	6.9	28.4	34.9	71.6 ###
1998-2011	3089	157	5.1	27.1	63.2	91.5

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.

Year of All Males Females Prop. males diagnosis n n n % 86.2 82.7 79.6 83.4 85.9 80.7 84.8 80.2 75.7 81.2 76.4 79.5 80.4 77.5 1998-2011 80.6

Table 1a

Patient cohorts by year of diagnosis and gender including DCO cases

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 4.52 m as of 2007, respectively)

Year of		Females	Males Inc.	Fem. Inc.	Males Inc.	Fem. Inc.	Males Inc.	Fem. Inc.	Males Inc.	Fem. Inc.
diagnosis	n	n	raw	raw	WS	WS	ES	ES	BRD-S	BRD-S
1998	125	20	11.3	1.7	7.6	0.9	10.1	1.4	10.8	1.5
1999	134	28	12.0	2.4	7.9	1.3	10.9	1.8	11.9	2.1
2000	109	28	9.6	2.3	6.3	1.5	8.8	2.0	9.8	2.1
2001	121	24	10.4	2.0	7.0	1.2	9.5	1.7	10.3	1.8
2002	195	32	10.5	1.6	6.9	1.0	9.4	1.3	10.1	1.5
2003	196	47	10.5	2.4	6.9	1.4	9.5	1.9	10.2	2.1
2004	178	32	9.5	1.6	6.3	0.9	8.5	1.2	9.2	1.4
2005	210	52	11.1	2.6	7.2	1.5	9.6	2.1	10.4	2.4
2006	178	57	9.3	2.8	6.0	1.8	8.2	2.5	9.0	2.6
2007	220	51	9.9	2.2	6.0	1.3	8.3	1.7	9.4	1.9
2008	226	70	10.2	3.0	6.3	1.6	8.7	2.1	9.7	2.5
2009	221	57	9.9	2.5	6.0	1.4	8.3	1.9	9.3	2.2
2010	209	51	9.3	2.2	5.6	1.3	7.8	1.8	8.6	1.9
2011	169	49	7.5	2.1	4.3	1.2	6.0	1.6	7.0	1.8
1998-2011	2491	598	9.9	2.3	6.3	1.3	8.6	1.8	9.5	2.0

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

Year of diagnosis	Cases n	Mean	Std. dev.	Min.	Max.	10%	25%	Median 50%	75%	90%
1998	145	57.7	10.7	0.9	87.6	46.9	51.6	57.3	63.5	70.7
1999	162	59.3	11.0	32.7	91.7	48.1	51.3	57.7	65.0	75.2
2000	137	59.0	10.4	31,0	89.6	47.9	51.8	58.0	64.3	74.1
2001	145	59.0	10.4	29.2	94.7	47.5	52.3	58.2	65.4	72.9
2002	227	59.6	9.8	37.3	96.8	47.5	53.2	59.4	64.3	72.9
2003	243	59.9	9.6	38.9	87.5	47.7	53.6	58.7	66.1	73.7
2004	210	59.3	10.6	31.7	87.8	46.6	51.9	58.5	65.1	74.4
2005	262	60.5	10.4	12.8	103	48.0	53.5	61.1	66.1	71.2
2006	235	60.0	10.9	17.6	101	47.6	52.5	58.9	66.4	72.5
2007	271	62.3	11.0	30.1	91.6	48.9	53.0	62.6	69.6	76.6
2008	296	63.1	10.5	28.3	97.0	49.3	57.1	62.1	69.1	77.0
2009	278	62.5	10.7	40.8	95.5	49.6	54.7	61.7	69.9	76.1
2010	260	61.5	10.9	21.3	92.3	48.2	54.2	61.3	69.1	74.7
2011	218	63.7	11.5	24.5	92.0	49.7	54.8	63.5	71.0	77.5
1998-2011	3089	60.8	10.7	0.9	103	48.1	53.4	60.2	67.4	74.8

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

Table 3a

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

Year of	Cases		Std.					Median		
diaqnosis	n	Mean	dev.	Min.	Max.	10%	25%	50%	75%	90%
2										
1998	125	56.8	10.3	0.9	87.6	46.2	51.1	57.2	62.3	68.6
1999	134	58.6	10.0	37.1	87.0	48.6	51.2	57.0	64.2	73.6
2000	109	59.6	9.8	40.6	89.6	49.4	52.5	58.0	65.3	73.9
2001	121	58.3	9.5	29.2	81.2	47.5	52.0	58.2	65.4	69.9
2002	195	59.2	9.3	38.0	96.8	47.5	53.0	59.1	63.9	70.6
2003	196	59.5	9.0	39.6	87.5	48.1	53.4	58.6	65.7	72.6
2004	178	58.4	10.1	31.7	85.5	45.6	51.2	57.5	64.2	72.7
2005	210	60.0	10.1	12.8	99.0	47.5	53.5	61.0	65.6	70.3
2006	178	60.0	10.3	17.6	86.7	47.6	52.5	59.0	66.4	72.7
2007	220	62.1	10.4	39.1	91.6	49.1	52.9	62.5	69.5	75.7
2008	226	61.9	10.0	28.3	87.0	49.3	55.1	61.2	68.4	75.0
2009	221	62.2	10.1	40.8	90.7	49.6	54.8	61.7	69.6	73.9
2010	209	61.6	10.7	21.3	92.3	48.1	54.3	61.0	69.3	75.0
2011	169	63.5	10.9	32.1	89.2	49.3	53.9	63.3	71.0	76.6
1998-2011	2491	60.4	10.2	0.9	99.0	48.1	53.0	60.0	66.9	73.6

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 1999	20 28	63.0 62.7	12.1 14.5	50.7 32.7	86.7 91.7	51.3 41.9	53.8 52.6	58.3 61.1	72.3 74.0	84.0 82.4
2000	28	56.7	12.6	31.0	81.3	39.8	49.5	57.7	61.0	77.0
2001 2002	24 32	62.4 61.9	13.9 12.1	41.3 37.3	94.7 83.6	49.3 47.6	53.7 53.7	58.4 60.8	73.7 70.8	84.8 78.9
2003	47	61.7	11.9	38.9	84.2	44.7	53.9	59.0	71.7	80.7
2004 2005	32 52	64.1 62.6	$12.1 \\ 11.5$	36.3	87.8 103	50.9 49.9	55.9 53.4	61.9 61.6	73.6	80.5 77.5
2006	57	59.9	12.8	34.7	101	46.3	51.6	58.8	65.6	72.5
2007 2008	51 70	63.3 66.9	$13.2 \\ 11.4$	30.1 35.5	89.4 97.0	48.7 55.1	53.6 61.1	62.6 66.4	71.3 70.8	83.5 83.3
2009	57	63.5	12.8	41.0	95.5	49.3	54.7	61.4	71.1	83.1
2010 2011	51 49	61.3 64.6	11.8 13.3	33.3 24.5	90.0 92.0	48.8 51.9	53.4 57.1	63.0 64.1	68.3 70.9	70.8 84.7
2011	7 <i>2</i>	01.0	13.3	4 1 .J	JZ.U	51.9	57.1	04.1	10.9	07./
1998-2011	598	62.7	12.6	24.5	103	48.1	54.1	61.5	70.1	81.3

Age at									
diagnosis	Cases			Males			Females		
Years	n	& C	um.%	n	olo	Cum.%	n	olo	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	0.1	/ 1	0.0	0.1			0.0
15-19	1	0.0	0.1	1	0.0	0.1			0.0
20-24	3	0.1	0.2	2	0.1	0.2	1	0.2	0.2
25-29	4	0.1	0.3	4	0.2	0.4			0.2
30-34	12	0.4	0.7	6	0.2	0.6	6	1.0	1.2
35-39	26	0.8	1.6	16	0.6	1.2	10	1.7	2.8
40 - 44	94	3.0	4.6	77	3.1	4.3	17	2.8	5.7
45-49	303	9.8	14.4	255	10.2	14.6	48	8.0	13.7
50-54	510	16.5	30.9	429	17.2	31.8	81	13.5	27.3
55-59	560	18.1	49.0	455	18.3	50.1	105	17.6	44.8
60-64	563	18.2	67.3	466	18.7	68.8	97	16.2	61.0
65-69	440	14.2	81.5	357	14.3	83.1	83	13.9	74.9
70-74	269	8.7	90.2	221	8.9	92.0	48	8.0	82.9
75-79	145	4.7	94.9	110	4.4	96.4	35	5.9	88.8
80-84	95	3.1	98.0	58	2.3	98.7	37	6.2	95.0
85+	62	2.0 1	00.0	32	1.3	100.0	30	5.0	100.0
All ages	3089	100.0		2491	100.0		598	100.0	

Age distribution by 5-year age group and gender for period 1998-2011 (incl. DCO)

Table 4

Included in the statistics are 32.9% multiple primaries in males and 32.9% in females.

Age at diagnosis Years	Males n	Females n	Age- spec.	Females Age- spec. incid.		Females DCO rate n=39 %	cancers	Females Prop.all cancers n=129521 %
0- 4	1		0.1	0.0	100.0		0.4	
5-9			0.0	0.0				
10-14	1		0.1				0.8	
15-19	1		0.1	0.0			0.3	
20-24	2	1	0.1	0.1			0.4	0.2
25-29	4		0.2	0.0			0.5	
30-34	б	6	0.3	0.3		16.7	0.5	0.3
35-39	16	10	0.7	0.5		10.0	0.8	0.3
40-44	76	17	3.4	0.8	1.3	4	2.8	0.3
45-49	250	47	12.9	2.5		4.3	5.6	0.7
50-54	427	77	25.6	4.5	3.5	1.3	5.9	0.8
55-59	452	105	29.0	6.4		2.9	3.6	0.9
60-64	463	96	30.4	6.0	4.3	3.1	2.5	0.6
65-69 70-74	354 220	81 48	26.0 21.3	5.4 3.9	4.2 9.5	2.5 ~6.3	1.5 1.0	0.5
70-74 75-79	108	40 35	16.0	3.5	9.5 4.6	8.6	0.6	0.3
80-84	108 58	35	14.3	3.5 4.5		22.2	0.8	0.2
85+	32	30	14.5	4.0	37.5	40.0	0.4	0.3
00+	52	50	11.5	4.0	57.5	40.0	0.4	0.2
All ages	2471	589			4.7	6.6	1.9	0.5
Incidence								
Raw			9.8	2.2				
WS			6.2					
ES			8.6	1.8				
BRD-S			9.4	2.0				

Age-specific incidence, DCO rate and proportion of all cancers for period 1998-2011

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 1998-2011 MALES

	Observed	Expected		LCL	UCL		DCO
Diagnosis	n	n	SIR	95%	95%	EAR	00
C03-C06 Oral cavity	28	0.8	35.5	\	51.3		10.7
C09-C10 Oropharynx	19	1.0	18.1	10.9		# 34.7	
C12-C13 Hypopharynx	7	0.6	11.6	4.7	23.9		14.3
C15 Oesophagus	35	1.3	27.0	18.8	37.6	# 65.1	20.0
C16 Stomach	/ 7	2.3	3.1	1.2	6.4	# 9.1	14.3
C18 Colon	10	5.5	1.8	0.9	3.4	8.8	
C19-C20 Rectum	5	3.8	1.3	0.4	3.1	2.4	
C21 Anus/canal	2	0.1	13.9	1.7	50.3	# 3.6	
C22 Liver	б	1.7	3.5	1.3	7.7	# 8.3	16.7
C25 Pancreas	6	2.0	3.0	1.1	6.5	# 7.7	16.7
C30-C31 Sinuses	2	0.1	18.3	2.2	66.1	₿ 3.7	
C32 Larynx	21	0.8	24.7	15.3	37.8	# 38.9	23.8
C33-C34 Lung	70	7.7	9.1	7.1	11.5	# 120.4	10.0
C43 Malign. melanoma	4	2.6	1.5	0.4	3.9	2.7	
C61 Prostate	18	17.6	1.0	0.6	1.6	0.7	5.6
C64 Kidney	6	2.4	2.5	0.9	5.5	7.0	33.3
C67 Bladder	6	2.1	2.8	1.0	6.2	₿ 7.5	16.7
C73 Thyroid	4	0.6	6.9	1.9	17.7	# 6.6	25.0
C76-C79 CUP	3	1.0	3.1	0.6	8.9	3.9	
C82-C85 NHL	2	2.3	0.9	0.1	3.1	-0.6	
Other primaries	7	3.4	2.0	0.8	4.2	6.9	28.6
Not observed	0	2.3	0.0	0.0	1.6	-4.5	
All mult. primaries	268	62.1	4.3	3.8	4.9	# 397.8	12.3

Patients	1860
Mean age at second malignancy (years)	63.6
Person-years	5177
Mean observation time (years)	2.8
Median observation time (years)	1.7

The occurrence of second malignancy is statistically significant.

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

Table 6b

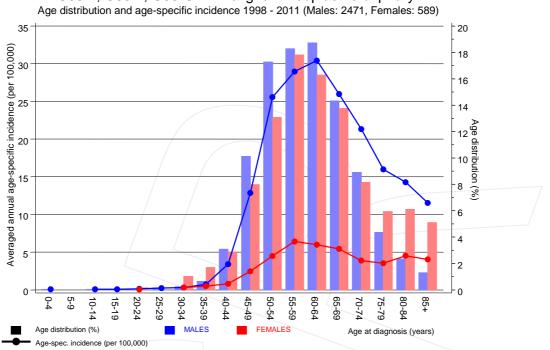
Standardized incidence ratio (SIR, with 95% confidence limits), excess absolute risk (EAR) and DCO rate of second primaries for period 1998-2011 FEMALES

	Observed	Expected		LCL	UCL		DCO
Diagnosis	n	n	SIR	95%	95%	EAR	00
C03-C06 Oral cavity	3	0.1	33.1	6.8	96.8 #	20.4	
C09-C10 Oropharynx	7	0.1	92.9	37.4	191.5 #	48.7	
C12-C13 Hypopharynx	3	0.0	149.2	30.8	436.1 #	20.9	
C15 Oesophagus	9	0.1	117.5	53.7	223.1 #	62.7	
C16 Stomach	2	0.4	5.1	0.6	18.6	11.3	
C18 Colon	5	1.1	4.5	1.5	10.4 #	27.3	
C32 Larynx	3	0.0	101.3	20.9	296.1 #	20.9	
C33-C34 Lung	12	1.0	12.3	б.4	21.5 #	77.5	8.3
C50 Breast	5	4.6	1.1	0.4	2.6	3.0	
C53 Cervix uteri	3	0.2	14.0	2.9	40.9 #	19.6	
C56 Ovary	2	0.6	3.6	0.4	13.0	10.2	50.0
C70-C72 CNS cancer	2	0.2	10.5	1.3	38.0 #	12.7	50.0
Other primaries	6	1.8	3.3	1.2	7.2 #	29.3	16.7
Not observed	0	3.1	0.0	0.0	1.2	-21.9	
All mult. primaries	62	13.2	4.7	3.6	6.0 #	342.6	6.5

Patients	428	
Mean age at second malignancy (years)	63.4	
Person-years	1423	
Mean observation time (years)	3.3	
Median observation time (years)	2.4	

The occurrence of second malignancy is statistically significant.

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



C05.1, C05.2, C09-C14: Malignant neoplasms of pharynx e distribution and age-specific incidence 1998 - 2011 (Males: 2471, Females: 589)

Figure 7. Age distribution and age-specific incidence



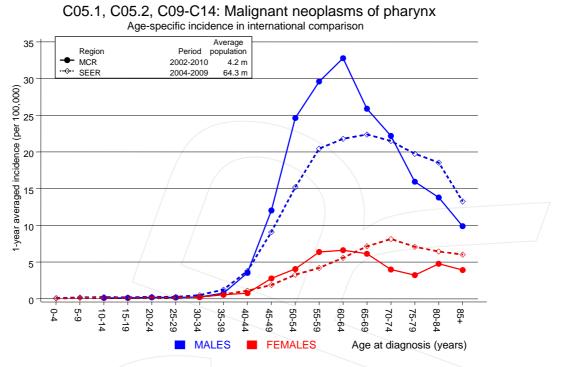
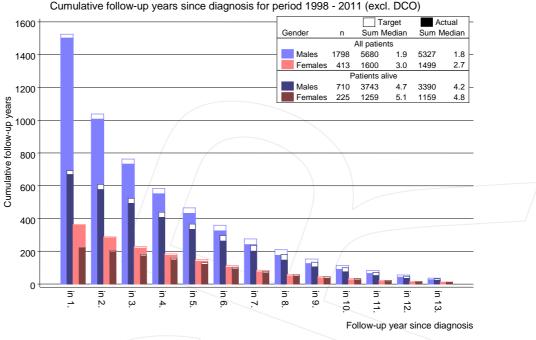


Figure 7a. Age-specific incidence in MCR registry areas compared to SEER (Surveillance, Epidemiology, and End Results, USA).



Surveillance, Epidemiology, and End Results (SEER) Program SEER*Stat Database: Incidence - SEER 18 Regs Research Data, released April 2012, based on the November 2011 submission. http://www.seer.cancer.gov.

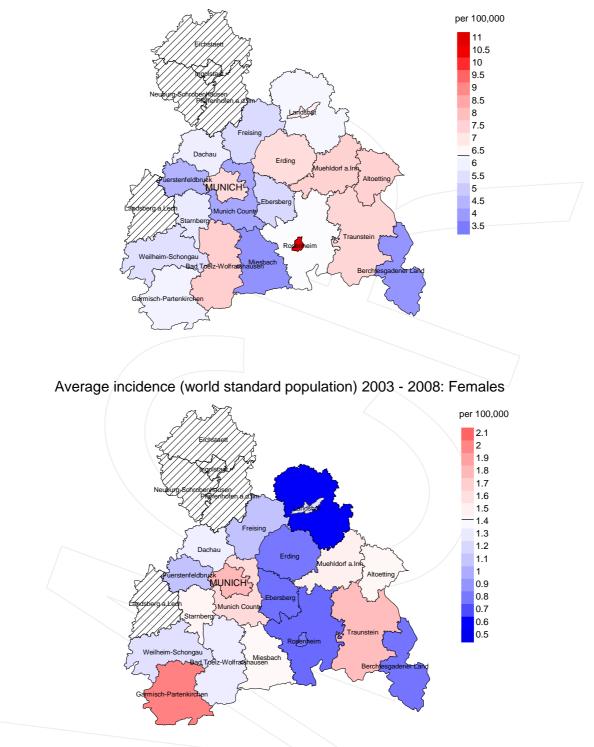


C05.1, C05.2, C09-C14: Malignant neoplasms of pharynx Cumulative follow-up years since diagnosis for period 1998 - 2011 (excl. DCO)

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) 2003 - 2008: Males

Figure 9a. Map of cancer incidence (world standard population, incl. DCO cases) by county averaged for period 2003 to 2008. 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 6.4/100,000 WS N=1,140, females 1.4/100,000 WS N=300). Since cancer data are not available in some counties until 2007, the local incidence rates were not calculated, and the map tiles show as shaded.

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 63,131 female residents (averaged) in the period from 2003 to 2008 a total of 5 women were identified with newly diagnosed pharynx cancer. Therefore, the mean incidence rate for this cancer type in this area can be calculated at 0.8/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.1 and 2.4/100,000.



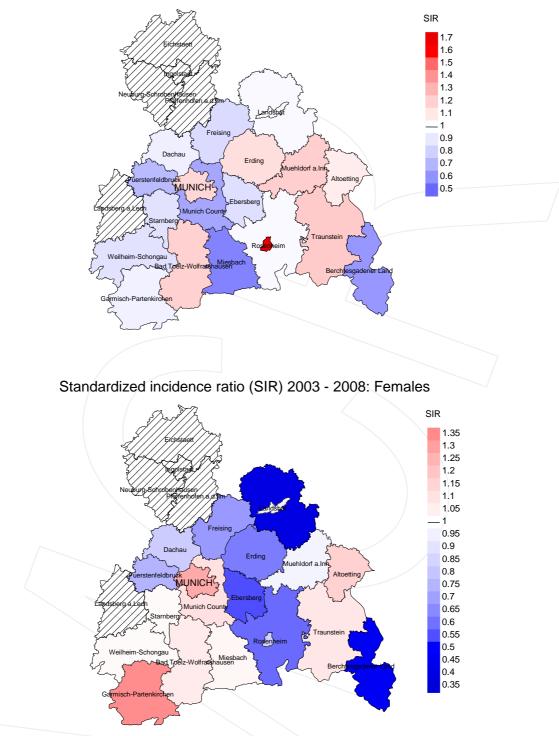


Figure 9b. Map of standardized incidence ratio (SIR, incl. DCO cases) by county averaged for period 2003 to 2008. According to their individual SIR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=1,140, females N=300). Since cancer data are not available in some counties until 2007, the local SIR values were not calculated, and the map tiles show as shaded.

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 63,131 female residents (averaged) in the period from 2003 to 2008 a total of 5 women were identified with newly diagnosed pharynx cancer. Therefore, the mean standardized incidence ratio (SIR) for this cancer type in this area can be calculated at 0.55. Though, the value of this parameter may vary with an underlying probability of 99% between 0.12 and 1.55, 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 4.52 m as of 2007, respectively)

		Prop.				Prop. deaths
	Incident	actively	Prop.		Prop.	with death
Year of	cases	followed	DCO	Deaths	deaths	certific.
diagnosis	n	00	00	n	00	00
1998	145	100.0	4.8	119	82.1	95.8
1999	162	98.8	4.9	129	79.6	90.7
2000	137	97.1	3.6	111	81.0	94.6
2001	145	95.9	5.5	107	73.8	97.2
2002	227	98.2	8.8	164	72.2	96.3
2003	243	98.4	2.1	183	75.3	97.3
2004	210	98.6	3.8	154	73.3	96.8
2005	262	97.3	5.3	166	63.4	98.2
2006	235	97.9	2.1	146	62.1	98.6
2007	271	91.1	9.6	163	60.1	96.3
2008	296	81.1	4.1	166	56.1	98.2
2009	278	83.1	2.9	155	55.8	98.1
2010	260	85.4	6.2	114	43.8	98.2
2011	218	71.6	6.9	76	34.9	97.4
1998-2011	3089	91.5	5.1	1953	63.2	96.8

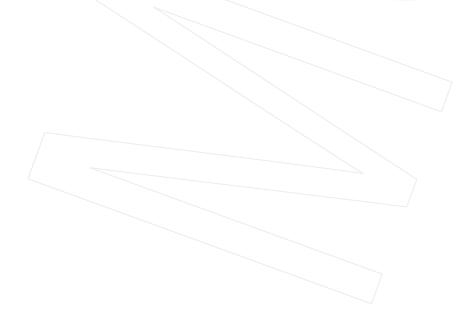


Table 10b

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 4.52 m as of 2007, respectively)

			Prop.		
			deaths		Prop.
Year of	Incident		with death	Deaths in	deaths in
diagnosis/	cases	Deaths	certific.	same year	same year
death	n	n	8	n	8
1998	145	116	90.5	27	18.6
1999	162	127	87.4	34	21.0
2000	137	113	95.6	21	15.3
2001	145	112	92.9	27	18.6
2002	227	168	97.6	46	20.3
2003	243	172	96.5	41	16.9
2004	210	178	96.6	31	14.8
2005	262	167	95.8	47	17.9
2006	235	186	98.4	38	16.2
2007	271	230	97.8	59	21.8
2008	296	205	98.5	51	17.2
2009	278	195	99.0	46	16.5
2010	260	206	99.0	45	17.3
2011	218	195	99.0	53	24.3
1998-2011	3089	2370	96.6	566	18.3



Table 10c

Annual cohorts of deaths, proportion of cancer-related and not cancerrelated 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 4.52 m as of 2007, respectively)

		Prop. cancer-	Prop. not cancer-	Prop. cancer recorded on death	
Year of	Deaths	related	related	certificate	
death	n	8	8	રુ	
1998	116	77.6	22.4	94.3	
1999	127	68.5	31.5	91.0	
2000	113	85.0	15.0	93.5	
2001	112	77.7	22.3	92.3	
2002	168	81.5	18.5	91.5	
2003	172	81.4	18.6	92.8	
2004	178	82.6	17.4	91.3	
2005	167	85.6	14.4	93.8	
2006	186	84.9	15.1	91.3	
2007	230	83.5	16.5	92.4	
2008	205	82.0	18.0	89.1	
2009	195	82.6	17.4	96.9	
2010	206	83.5	16.5	92.6	
2011	195	76.4	23.6	86.5	
1998-2011	2370	81.3	18.7	92.0	

Munich Cancer Registry

Year of	Deaths	Age at death (all causes)	Age at death (cancer- related)	Age at death (not cancer- related)	Age at death (according to death certificate)
death	n	Years	Years	Years	Years
1998	90	60.3	58.0	68.5	60.0
1999	101	61.2	60.3	63.7	60.7
2000	91	61.9	61.2	65.6	61.8
2001	92	61.0	59.5	66.1	61.0
2002	143	61.6	60.7	66.3	61.1
2003	148	63.2	62.3	67.6	62.6
2004	149	62.0	60.8	67.8	61.2
2005	141	62.9	62.4	65.9	62.6
2006	158	63.8	62.9	69.0	63.1
2007	191	63.4	62.2	69.6	62.9
2008	160	65.4	64.8	68.4	65.4
2009	155	64.9	64.6	66.4	64.9
2010	172	65.0	64.0	70.8	64.5
2011	162	66.1	64.6	71.4	65.4
1998-2011	1953	63.4	62.4	67.9	63.0

Table 11a

Means of age at death according to the grouping in Table 10 $$\rm MALES$$

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.

Year of	Deaths	Age at death (all causes)	Age at death (cancer- related)	Age at death (not cancer- related)	Age at death (according to death certificate)
death	n	Years	Years	Years	Years
1998	26	69.5	68.5	72.9	69.3
1999	26	66.6	65.7	67.6	63.6
2000	22	58.8	57.4	67.9	58.2
2001	20	66.3	66.3	66.5	66.0
2002	25	66.7	65.9	68.6	67.3
2003	24	66.1	65.0	69.3	66.2
2004	29	69.9	69.8	70.2	70.0
2005	26	65.4	63.3	74.0	64.5
2006	28	69.7	68.7	74.2	68.9
2007	39	69.0	68.1	74.1	68.3
2008	45	66.7	65.3	72.4	65.1
2009	40	69.5	68.4	73.2	69.4
2010	34	64.6	63.1	68.6	63.3
2011	33	69.2	66.1	76.2	67.7
1998-2011	417	67.2	66.0	71.1	66.5

Table 11b

Means of age at death according to the grouping in Table 10 FEMALES

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
ueatii	11	Iaw	Law	w.5	WD	C II	ЦО	BKD-3	BKD-3
1998	70	6.3	0.56	4.4	0.57	5.8	0.57	6.3	0.58
1999	74	6.6	0.55	4.2	0.53	5.9	0.54	6.7	0.56
2000	78	6.8	0.72	4.4	0.69	6.2	0.70	7.1	0.73
2001	72	6.2	0.60	4.1	0.58	5.7	0.60	6.2	0.61
2002	120	6.4	0.62	4.2	0.61	5.8	0.62	6.4	0.64
2003	122	6.5	0.63	4.1	0.59	5.7	0.60	6.3	0.63
2004	124	6.6	0.71	4.2	0.69	5.8	0.71	6.3	0.70
2005	122	б.4	0.58	3.9	0.55	5.5	0.57	6.1	0.59
2006	135	7.0	0.76	4.3	0.72	6.0	0.73	6.8	0.75
2007	159	7.2	0.73	4.3	0.73	6.1	0.74	6.9	0.74
2008	132	5.9	0.59	3.4	0.54	4.8	0.56	5.6	0.58
2009	131	5.9	0.60	3.4	0.57	4.8	0.58	5.6	0.60
2010	147	6.5	0.71	3.8	0.68	5.4	0.70	6.2	0.72
2011	126	5.6	0.76	3.2	0.76	4.5	0.76	5.2	0.77
1998-2011	1612	6.4	0.65	3.9	0.63	5.5	0.64	6.2	0.66

Table 12b

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

Year of	Deaths	Mort.	MI-Index	Mort.	MI-Index	Mort.	MI-Index	Mort.	MI-Index
death	n	raw	raw	WS	WS	ES	ES	BRD-S	BRD-S
1998	20	1.7	1.00	0.8	0.86	1.2	0.88	1.5	1.00
1999	13	1.1	0.46	0.6	0.42	0.8	0.43	1.0	0.46
2000	19	1.6	0.68	1.0	0.67	1.3	0.68	1.5	0.69
2001	15	1.2	0.63	0.6	0.54	0.9	0.53	1.0	0.55
2002	17	0.9	0.53	0.5	0.50	0.7	0.52	0.8	0.51
2003	18	0.9	0.38	0.5	0.37	0.7	0.38	0.8	0.37
2004	23	1.2	0.72	0.5	0.62	0.8	0.62	1.0	0.69
2005	21	1.1	0.41	0.6	0.42	0.9	0.43	1.0	0.41
2006	23	1.1	0.41	0.6	0.31	0.8	0.33	1.0	0.37
2007	33	1.4	0.67	0.7	0.59	1.0	0.61	1.2	0.65
2008	36	1.6	0.52	0.8	0.54	1.2	0.55	1.3	0.52
2009	31	1.3	0.55	0.7	0.49	0.9	0.49	1.1	0.51
2010	25	1.1	0.51	0.6	0.49	0.9	0.50	1.0	0.54
2011	23	1.0	0.48	0.5	0.46	0.7	0.47	0.8	0.47
1998-2011	317	1.2	0.54	0.6	0.49	0.9	0.50	1.0	0.52

Age at									
death	Cases			Males			Females		
Years	n	00	Cum.%	n	010	Cum.%	n	00	Cum.%
0-4	1	0.1	0.1	1	0.1	0.1			0.0
5-9	0	0.0	0.1			0.1			0.0
10-14	0	0.0	0.1			0.1			0.0
15-19	0	0.0	0.1			0.1			0.0
20-24	0	0.0	0.1			0.1			0.0
25-29	0	0.0	0.1			0.1			0.0
30-34	2	0.1	0.2	1	0.1	0.1	1	0.3	0.3
35-39	11	0.6	0.7	8	0.5	0.6	3	0.9	1.3
40 - 44	38	1.9	2.6	34	2.1	2.7	4	1.3	2.5
45-49	135	6.9	9.5	118	7.2	9.8	17	5.3	7.8
50-54	255	13.0	22.5	230	14.0	23.8	25	7.8	15.6
55-59	382	19.4	41.9	325	19.7	43.5	57	17.8	33.4
60-64	380	19.3	61.2	324	19.7	63.2	56	17.5	50.9
65-69	305	15.5	76.7	254	15.4	78.6	51	15.9	66.9
70-74	194	9.9	86.5	164	10.0	88.5	30	9.4	76.3
75-79	136	6.9	93.4	107	6.5	95.0	29	9.1	85.3
80-84	76	3.9	97.3	54	3.3	98.3	22	6.9	92.2
85+	53	2.7	100.0	28	1.7	100.0	25	7.8	100.0
All ages	1968	100.0		1648	100.0		320	100.0	

Age distribution of age at death (cancer-related) for period 1998-2011 (incl. multiple primaries)

Included in the statistics are 32.9% multiple primaries in males and 32.9% in females.

			Males		Females		Males	Females
Age at			Age-		Age-		Prop.all	Prop.all
death	Males Fe	emales	spec.		spec.		cancers	cancers
Years	n	n	mortal.	MI-index	mortal.	MI-index	olo	olo
0- 4	1		0.1	1.00	0.0		3.4	
5-9			0.0		0.0			
10-14			0.0		0.0			
15-19			0.0		0.0			
20-24			0.0		0.0			
25-29			0.0		0.0			
30-34	1	1	0.1	0.17	0.1		0.6	0.5
35-39	8	3	0.4	0.50	0.1		2.2	0.7
40-44	34	4	1.5		0.2		4.5	0.4
45-49	118	17	6.1	0.46	0.9		7.7	1.0
50-54	230	25	13.8	0.54	1.5		8.1	1.0
55-59	325	57	20.8	0.71	3.5		6.3	1.4
60-64	324	56	21.3	0.70	3.5		4.2	1.0
65-69	254	51	18.6	0.71	3.4		2.5	0.7
70-74	164	30	15.9	0.74	2.4	0.63	1.5	0.4
75-79	107	29	15.8	0.97	2.9	0.83	1.0	0.3
80-84	54	22	13.3	0.93	2.8	0.59	0.6	0.2
85+	28	25	10.1	0.88	3.4	0.83	0.4	0.2
All ages	1648	320					2.5	0.5
Mortality								
Raw			6.6	0.66	1.2	/		
WS			4.0	0.64	0.6			
ES			5.6	0.65	0.9			
BRD-S			6.3	0.67	1.0	0.52		
/								
PYLL-70								
per 100,000			66.4		10.3			
ES			60.5		8.9			
AYLL-70			11.7		10.9			

Age-specific mortality (cancer-related) and proportion of all cancers for period 1998-2011 (incl. multiple primaries)

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

Table 15a

Multiple primaries in deaths in period 1998-2011 $${\rm MALES}$$

				Syn-	Syn-		
m - + - 1	T - 1	Deres	Deve			Deet	Deet
	/						Post
n	8 ↓	n	6→	n	∛→	n	00
87	12.7	36	41.4	12	13.8	39	44.8
						37	80.4
						-	51.1
/ -		20	23.8			-	63.1
		3	25.0	2		7	58.3
		9		1	5.9	7	41.2
		5		1	8.3	6	50.0
				2	16.7	10	83.3
15	2.2	2	13.3	1	6.7	12	80.0
25	3.6			5	20.0	20	80.0
138	20.1	22	15.9	19	13.8	97	70.3
8	1.2	3	37.5	2	25.0	3	37.5
41	6.0	13	31.7	7	17.1	21	51.2
32	4.7	17	53.1	1	3.1	14	43.8
13	1.9	6	46.2	2	15.4	5	38.5
20	2.9	10	50.0	_ 1	5.0	9	45.0
19	2.8	12	63.2			7	36.8
6	0.9	4	66.7			2	33.3
6	0.9	2	33.3	2	33.3	2	33.3
6	0.9	4	66.7			2	33.3
43	6.3	14	32.6	5	11.6	24	55.8
687	100.0	182	26.5	105	15.3	400	58.2
	25 138 8 41 32 13 20 19 6 6 6 6 43	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

Multiple primaries with number of cases n<6 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 1998-2011 FEMALES

					Syn- chron	Syn- chron		
	Total	Total	Pre	Pre	±30d	±30d	Post	Post
Diagnosis	n	%↓	n	6 ≟ 1 %→	n	_> 0 0 0 _ ←%	n	5551 ∻→
5								
C03-C06 Oral cavity	22	13.9	15	68.2	3	13.6	4	18.2
C09-C10 Oropharynx	2	1.3					2	100.0
C11 Nasopharynx	1	0.6			1	100.0		
C12-C13 Hypopharynx	5	3.2			2	40.0	3	60.0
C14 ENT cancer	1	0.6			1	100.0		
C15 Oesophagus	16	10.1	2	12.5	4	25.0	10	62.5
Cl6 Stomach	3	1.9			1	33.3	2	66.7
C18 Colon	6	3.8	4	66.7	1	16.7	1	16.7
C19-C20 Rectum	1	0.6					1	100.0
C21 Anus/canal	3	1.9	2	66.7			1	33.3
C22 Liver	1	0.6					1	100.0
C26 GI cancer	1	0.6					1	100.0
C30 Middle/inner ear	1	0.6					1	100.0
C30-C31 Sinuses	4	2.5	2	50.0			2	50.0
C32 Larynx	8	5.1	4	50.0			4	50.0
C33-C34 Lung	23	14.6	2	8.7	3	13.0	18	78.3
C44 Skin others	2	1.3					2	100.0
C50 Breast	27	17.1	20	74.1	2	7.4	5	18.5
C51 Vulva	2	1.3	1	50.0			1	50.0
C53 Cervix uteri	б	3.8	5	83.3			1	16.7
C54 Corpus uteri	2	1.3	1	50.0			1	50.0
C56 Ovary	2	1.3	1	50.0			1	50.0
C67 Bladder	3	1.9	2	66.7			1	33.3
C68 Urethra	1	0.6	1	100.0				
C70-C72 CNS cancer	2	1.3			1/	50.0	1	50.0
C73 Thyroid	3	1.9	2	66.7	1	33.3		
C76-C79 CUP	5	3.2	3	60.0			2	40.0
C82-C85 NHL	2	1.3	2	100.0				
C90 Mult. myeloma	1	0.6	1	100.0				
C91-C96 Leukaemia	2	1.3					2	100.0
All mult. primaries	158	100.0	70	44.3	20	12.7	68	43.0

Multiple primaries with number of cases n<1 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.

		()	SINgular	primarie:	s only ")			
			Males		Females		Males	Females
Age at			Age-		Age-		Prop.all	Prop.all
death	Males	Females	- /		spec.		cancers	cancers
Years	n	n	mortal.	MI-index	mortal.	MI-index	00	00
0 4			0.0		0.0			
0-4			0.0		0.0			
5-9			0.0		0.0			
10-14 15-19			0.0		0.0			
			0.0		0.0			
20-24 25-29			0.0		0.0			
30-34	1	1	0.0 0.1	0.17	0.0	0.17	0.6	0.6
35-39	1 7	1	0.1		0.1	0.17	2.1	0.8
40-44	30	3	1.3		0.0	0.13	4.3	0.2
45-49	100	14	5.1	0.45	0.1	0.18	7.2	0.9
50-54	200	20	12.0	0.45	1.2	0.30	8.0	0.9
55-59	200	48	17.5	0.33	2.9	0.51	6.1	1.4
60-64	256	42	16.8	0.68	2.5	0.00	3.9	0.9
65-69	190	40	13.9		2.0	0.62	2.3	0.7
70-74	134	21	13.0	0.84	1.7	0.62	1.5	0.3
75-79	82	21	12.1		2.1	0.88	1.0	0.3
80-84	33	14	8.1		1.8	0.54	0.5	0.2
85+	22	17	7.9		2.3	0.74	0.4	0.2
0.5 1	22	± /		0.00	2.5	0.71	0.1	0.2
All ages	1328	242					2.5	0.5
Mortality								
Raw			5.3	0.65	0.9	0.51		
WS			3.3	0.63	0.5	0.47		
ES			4.6	0.64	0.7	0.48		
BRD-S			5.1	0.66	0.8	0.50		
PYLL-70								
per 100,000			55.6		8.1			
ES			50.6		7.0			
AYLL-70			12.0		10.8			

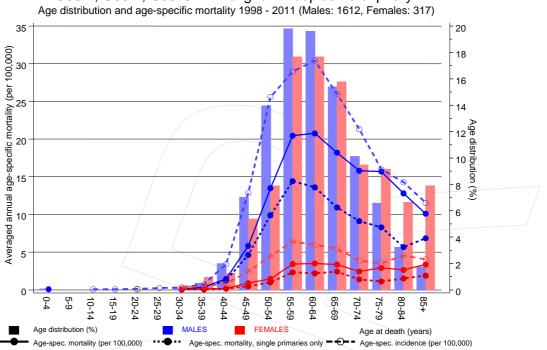
Age-specific mortality (cancer-related) and proportion of all cancers for period 1998-2011 (Singular primaries only *)

* See corresponding tables with multiple primaries.

			(Single]	primaries	only *)			
			Males		Females		Males	Females
Age at			Age-		Age-		Prop.all	Prop.all
death	Males	Females	spec.		spec.		cancers	cancers
Years	n	n	mortal.	MI-index	mortal.	MI-index	010	00
0- 4			0.0		0.0			
5-9			0.0		0.0			
10-14			0.0		0.0			
15-19			0.0		0.0			
20-24			0.0		0.0			
25-29			0.0		0.0			
30-34	1	1	0.1	0.20	0.1	0.17	0.6	0.6
35-39	7	1	0.3	0.54	0.0	0.13	2.1	0.3
40 - 44	28	3	1.3	0.44	0.1	0.20	4.2	0.4
45-49	90	9	4.6	0.44	0.5	0.25	6.9	0.7
50-54	165	17	9.9	0.48	1.0	0.29	7.3	0.9
55-59	225	38	14.4	0.66	2.3	0.53	5.5	1.2
60-64	207	35	13.6	0.62	2.2	0.46	3.6	0.9
65-69	149	36	10.9	0.62	2.4	0.60	2.0	0.7
70-74	94	17	9.1	0.67	1.4	0.57	1.3	0.3
75-79	56	1/1	8.3	0.79	1.1	0.52	0.8	0.2
80-84	23	12	5.7	0.66	1.5	0.50	0.4	0.2
85+	19	14	6.8	0.76	1.9	0.61	0.4	0.2
All ages	1064	194					2.3	0.5
Mortality								
Raw			4.2	0.58	0.7	0.45		
WS			2.6	0.57	0.4	0.42		
ES			3.7		0.6	0.43		
BRD-S			4.1	0.59	0.6	0.44		
PYLL-70								
per 100,000			47.0		6.6			
ES			42.7		5.7			
AYLL-70			12.3		10.6			

Age-specific mortality (cancer-related) and proportion of all cancers for period 1998-2011 (Single primaries only *)

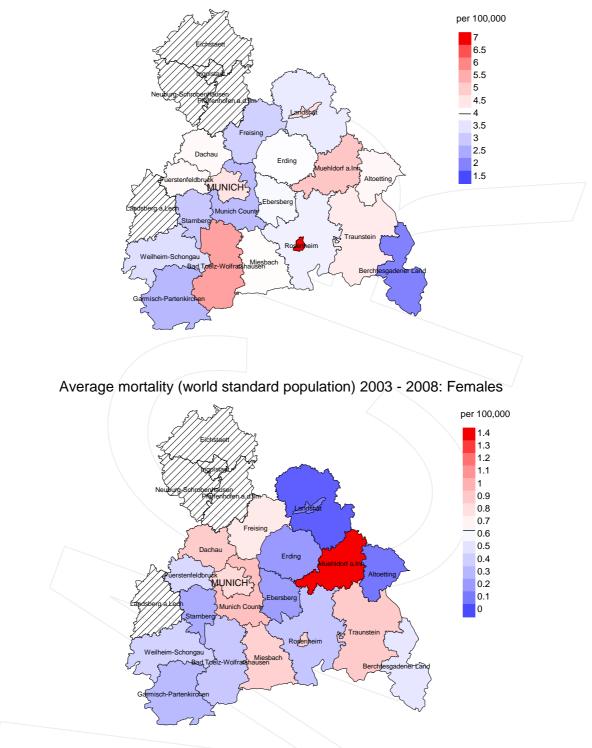
* See corresponding tables with multiple primaries.



C05.1, C05.2, C09-C14: Malignant neoplasms of pharynx age distribution and age-specific mortality 1998 - 2011 (Males: 1612, Females: 317)

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).

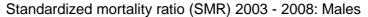
The difference between age at diagnosis (Table 3) and age at pharynx cancer-related death (see Table 10) should be considered.



Average mortality (world standard population) 2003 - 2008: Males

Figure 19a. Map of cancer mortality (world standard population) by county averaged for period 2003 to 2008. 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 4.0/100,000 WS N=757, females 0.6/100,000 WS N=149). Since cancer data are not available in some counties until 2007, the local mortality rates were not calculated, and the map tiles show as shaded.

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 63,131 female residents (averaged) in the period from 2003 to 2008 a total of 2 women died from pharynx cancer. Therefore, the mean mortality rate for this cancer type in this area can be calculated at 0.2/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.0 and 1.2/100,000.



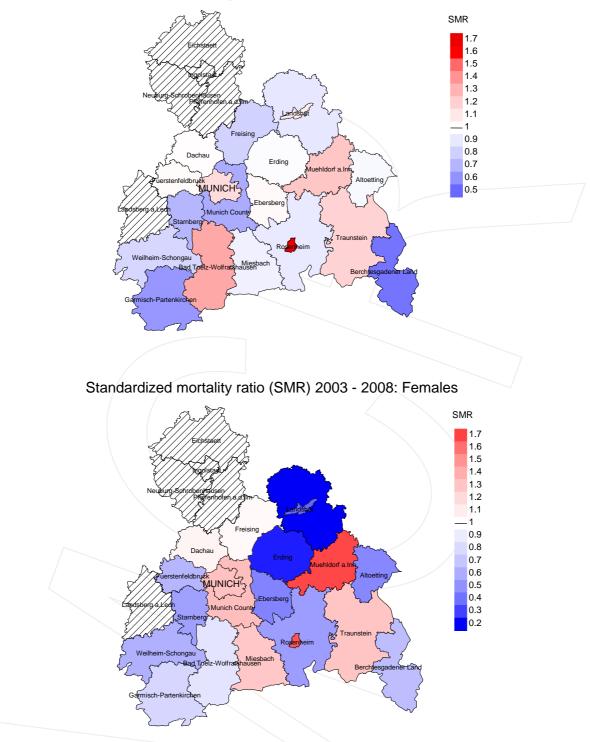


Figure 19b. Map of standardized mortality ratio (SMR, incl. DCO cases) by county averaged for period 2003 to 2008. According to their individual SMR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=757, females N=149). Since cancer data are not available in some counties until 2007, the local SMR values were not calculated, and the map tiles show as shaded.

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 63,131 female residents (averaged) in the period from 2003 to 2008 a total of 2 women died from pharynx cancer. Therefore, the mean standardized mortality ratio (SMR) for this cancer type in this area can be calculated at 0.45. Though, the value of this parameter may vary with an underlying probability of 99% between 0.02 and 2.09, 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 tumor-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

AYLL-70 BRD-S	Average years of life lost prior to age 70 given a person dies before that age 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)
FRG	Federal Republic of Germany
GEKID	Association of Population-based Cancer Registries in Germany
	(Gesellschaft der epidemiologischen Krebsregister in Deutschland e.V.)
LCL	Lower confidence limit
MI-index	Ratio between mortality and incidence
MCR	Munich Cancer Registry (Tumorregister München)
PYLL-70	Potential years of life lost prior to age 70 given a person dies before that age
SEER	Surveillance, Epidemiology, and End Results (USA)
SIR	Standardized incidence ratio
SMR	Standardized mortality ratio
UCL	Upper confidence limit
WS	World standard population

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