Munich Cancer Registry



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

ICD-10 C06: Mouth cancer NOS

Incidence and Mortality

Year of diagnosis	1998-2014
Patients	331
Diseases	332
Creation date	04/13/2016
Export date	12/23/2015
Population	4.64 m



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

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

http://www.tumorregister-muenchen.de/en/facts/base/bC06__E-ICD-10-C06-Mouth-cancer-NOS-incidence-and-mortality.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.

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 2016

- 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).
- 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.

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 (ICD-10 2015) used for specifying cancer site

Code	Description
C06	Malignant neoplasm of other and unspecified parts of mouth
C06.0	Cheek mucosa
C06.1	Vestibule of mouth
C06.2	Retromolar area
C06.8	Overlapping lesion of other and unspecified parts of mouth
C06.9	Mouth, unspecified

INCIDENCE

Table 1

All patients with invasive cancer by year of diagnosis, proportions of DCO, multiple primaries, deaths, and active follow-up (incl. DCO)

				Prop.		Prop.
		/DCO	Prop.	mult.	Prop.	actively
Year of	Cases	cases	DCO	primaries	deaths	followed
diagnosis	n	n	90	- / %	%	용
_						
1998	12			8.3	66.7	100.0
1999	16			37.5	62.5	100.0
2000	17	1	5.9	35.3	88.2	100.0
2001	10	2	20.0	30.0	70.0	100.0
2002	26	10	38.5	34.6	84.6	96.2 #
2003	16	2	12.5	31.3	68.8	93.8
2004	20	2	10.0	45.0	75.0	100.0
2005	9	/ 1	11.1	44.4	88.9	100.0
2006	16			31.3	56.3	100.0
2007	22			36.4	59.1	81.8 #
2008	17			41.2	58.8	70.6
2009	27			29.6	51.9	74.1
2010	23	4	17.4	30.4	60.9	78.3
2011	26			46.2	53.8	92.3
2012	25			28.0	28.0	88.0
2013	45	1	2.2	35.6	37.8	100.0
2014	5	1	20.0	40.0	100.0	100.0 ##
1998-2014	332	24	7.2	34.6	59.9	91.6

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

^{##} Please be aware that data of recent annual patient cohorts may not yet be fully processed. The years under evaluation can be found in the respective headings.

Table 1a

All patients with invasive cancer by year of diagnosis and gender (incl. DCO)

Year of	All/	Males	Females	Prop. males
diagnosis	n/	/ n	n	%
1998	12	6	6	50.0
1999	/16	/ 8	8	50.0
2000	/ 17	13	4	76.5
2001	10	6	4	60.0
2002	26	14	12	53.8
2003	16	9	7	56.3
2004	20	13	7 /	65.0
2005	9	3	6	33.3
2006	16	9	7	56.3
2007	22	6	16	27.3
2008	17	10	7	58.8
2009	27	15	12	55.6
2010	23	13	10	56.5
2011	26	12	14	46.2
2012	25	15	10	60.0
2013	45	27	18	60.0
2014	5	4	1	80.0
1998-2014	332	183	149	55.1

Table 2

Incidence measures by year of diagnosis 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)

			Males	Fem.	Males	Fem.	Males	Fem.	Males	Fem.
Year of	Males	Females	Inc.	Inc.	Inc.	Inc.	Inc.	Inc.	Inc.	Inc.
diagnosis	n	n	raw	raw	WS	WS	ES	ES	BRD-S	BRD-S
1998	6	6	0.5	0.5	0.4	0.3	0.5	0.4	0.6	0.5
1999	8	8	0.7	0.7	0.4	0.3	0.7	0.5	0.9	0.6
2000	13	4	1.1	0.3	0.7	0.1	1.0	0.2	1.1	0.3
2001	6	4 <	0.5	0.3	0.3	0.2	0.5	0.2	0.7	0.3
2002	14	12	0.8	0.6	0.5	0.2	0.7	0.3	0.7	0.5
2003	9	7	0.5	0.4	0.3	0.2	0.4	0.3	0.4	0.3
2004	13	7	0.7	0.4	0.4	0.2	0.6	0.2	0.7	0.3
2005	3	6	0.2	0.3	0.1	0.2	0.1	0.2	0.2	0.2
2006	9	7	0.5	0.3	0.3	0.2	0.4	0.2	0.5	0.3
2007	6	16	0.3	0.7	0.2	0.3	0.2	0.4	0.3	0.6
2008	10	7	0.4	0.3	0.3	0.1	0.4	0.2	0.4	0.2
2009	15	12	0.7	0.5	0.4	0.3	0.5	0.4	0.7	0.5
2010	13/	10	0.6	0.4	0.4	0.2	0.5	0.2	0.5	0.3
2011	12	14	0.5	0.6	0.3	0.3	0.4	0.4	0.5	0.5
2012	15	10	0.7	0.4	0.4	0.3	0.6	0.3	0.6	0.4
2013	27	18	1.2	0.8	0.6	0.4	0.9	0.5	1.0	0.6
2014	4	\1	0.2	0.0	0.1	0.0	0.1	0.0	0.2	0.0
1998-2014	183	149	0.6	0.4	0.3	0.2	0.5	0.3	0.6	0.4

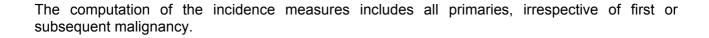


Table 3

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

Year of	Cases		Std.					Median		
diagnosis	n	Mean	dev.	Min.	Max.	10%	25%	50%	75%	90%
1998	12	60.4	14.3	38.5	80.8	42.5	48.6	59.7	72.4	78.4
1999	16	68.4	11.1	53.4	90.5	53.6	61.1	65.3	76.3	85.5
2000	17	65.7	10.7	45.0	85.5	50.6	58.6	67.6	71.8	82.1
2001	10	70.2	13.7	49.6	94.3	53.0	59.1	69.9	78.6	89.1
2002	26	69.7	14.6	41.2	94.9	52,3	58.4	71.1	80.9	91.8
2003	16	62.2	11.9	43.4	83.7	45.7	53.4	61.5	69.1	82.7
2004	20	64.3	14.3	31.2	89.8	48.2	56.0	62.9	74.3	84.1
2005	9	67.5	18.0	41.4	98.7	41.4	60.3	65.8	79.2	98.7
2006	16	68.4	12.8	48.7	89.3	55.5	57.8	63.5	80.9	86.2
2007	22	67.7	15.1	31.0	87.2	47.8	54.7	71.3	80.1	83.3
2008	17	65.5	13.1	45.6	91.5	49.9	57.0	62.3	73.7	87.8
2009	27	64.9	14.7	29.6	83.7	49.4	55.8	67.2	80.3	83.6
2010	23	66.7	15.2	21.9	87.9	54.5	56.0	66.2	74.6	87.1
2011	26	67.0	13.4	43.5	96.9	52.2	57.3	66.2	72.7	85.9
2012	25	60.0	14.0	21.5	87.0	48.6	53.0	60.8	68.1	78.5
2013	45	66.1	11.7	44.2	92.3	49.4	60.6	66.9	72.3	80.0
2014	5	65.0	6.0	55.3	71.0	55.3	64.4	66.4	68.1	71.0
1998-2014	332	65.9	13.5	21.5	98.7	49.7	56.5	65.3	75.1	83.7

Table 3a

Age distribution parameters by year of diagnosis (MALES)

(incl. DCO)

Year of	Cases		Std.					Median		
diagnosis	n	Mean	dev.	Min.	Max.	10%	25%	50%	75%	90%
1998	6	54.4	14.9	38.5	80.8	38.5	42.5	53.5	57.6	80.8
1999	8	68.5	12.4	53.4	85.5	53.4	58.8	65.6	80.2	85.5
2000	13	64.4	9.9	45.0	85.5	53.6	58.6	66.0	68.0	72.0
2001	6	70.3	16.1	49.6	94.3	49.6	59.1	70.2	78.6	94.3
2002	14	61.3	12.0	41.2	92.2	51.7	52.5	60.7	66.3	72.2
2003 —	9	64.4	5.9	56.5	74.3	56.5	59.6	62.6	66.7	74.3
2004	13	61.4	13.2	31.2	87.0	53.3	56.6	62.5	64.0	75.5
2005	3	69.9	20.4	46.4	84.0	46.4	46.4	79.2	84.0	84.0
2006	9	68.4	11.5	55.5	89.3	55.5	61.2	63.7	76.9	89.3
2007	6	69.3	14.0	54.6	87.2	54.6	54.7	68.1	83.3	87.2
2008	10	62.2	8.4	49.9	77.2	53.2	57.0	59.3	68.0	75.5
2009	15	68.0	10.2	52.7	83.7	55.8	57.6	67.9	80.3	83.7
2010	13	61.9	7.8	51.1	73.9	54.5	55.1	60.8	67.0	72.8
2011	12	63.5	15.3	43.5	93.0	46.0	52.9	59.6	74.7	81.1
2012	15	57.2	10.4	40.9	78.5	48.6	51.8	53.2	64.9	77.2
2013	27	64.8	11.0	44.2	85.0	49.4	53.4	66.9	72.3	78.1
2014	4	64.7	6.8	55.3	71.0	55.3	59.8	66.2	69.6	71.0
1998-2014	183	63.9	11.6	31.2	94.3	51.4	55.1	63.2	71.8	80.3

Table 3b

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

Year of	Cases		Std.					Median		
diagnosis	n	Mean	dev.	Min.	Max.	10%	25%	50%	75%	90%
1998	6	66.4	12.0	45.2	78.4	45.2	61.8	68.6	75.9	78.4
1999	8	68.4	10.5	58.9	90.5	58.9	61.1	65.1	72.6	90.5
2000	4	69.9	13.7	50.6	82.1	50.6	60.7	73.6	79.2	82.1
2001	4	70.1	11.3	56.5	84.0	56.5	62.5	69.9	77.6	84.0
2002	12	79.6	10.6	54.3	94.9	71,5	74.9	80.9	85.7	91.8
2003	7	59.4	17.1	43.4	83.7	43.4	45.7	50.3	82.7	83.7
2004	7	69.6	15.9	43.1	89.8	43.1	55.4	72.0	81.3	89.8
2005	6	66.3	18.6	41.4	98.7	41.4	60.3	64.5	68.5	98.7
2006	7	68.3	15.2	48.7	86.2	48.7	56.9	62.3	84.6	86.2
2007	16	67.1	15.9	31.0	87.1	41.5	58.4	71.4	78.2	81.6
2008	7	70.1	17.6	45.6	91.5	45.6	55.4	64.7	87.8	91.5
2009	12	61.0	18.6	29.6	83.6	30.7	50.5	63.0	76.8	82.1
2010	10	73.0	20.2	21.9	87.9	43.2	66.2	78.8	87.1	87.8
2011	14 /	70.1	11.3	57.3	96.9	58.6	63.0	67.9	72.7	85.9
2012	10/	64.2	17.8	21.5	87.0	38.3	61.2	66.1	72.7	84.5
2013	18	68.1	12.7	45.0	92.3	46.8	63.2	66.4	72.9	91.0
2014	1	66.4		66.4	66.4	66.4	66.4	66.4	66.4	66.4
1998-2014	149	68.3	15.1	21.5	98.7	47.8	60.6	68.8	80.8	87.1

Table 4

Age distribution by 5-year age group and gender for period 2007-2014 (incl. DCO)

Age at									
diagnosis	Cases			Males			Females		
Years	n	용	Cum.%	n	엉	Cum.%	n	90	Cum.%
20-24	2	1.1	/1.1			0.0	2	2.3	2.3
25-29	1	0.5	1.6			0.0	1	1.1	3.4
30-34	2	1.1	2.6			0.0	2	2.3	5.7
35-39	0	0.0	2.6			0.0			5.7
40 - 44	6	3.2	5.8	4	3.9	3.9	2	2.3	8.0
45-49	10	5.3	11.1	6	5.9	9.8	4	4.5	12.5
50-54	21	11.1	22.1	18	17.6	27.5	3	3.4	15.9
55-59	20	10.5	32.6	15	14.7	42.2	5	5.7	21.6
60-64	30	15.8	48.4	14	13.7	55.9	16	18.2	39.8
65-69	29	15.3	63.7	15	14.7	70.6	14	15.9	55.7
70-74	27	14.2	77.9	14	13.7	84.3	13	14.8	70.5
75-79	9	4.7	82.6	6	5.9	90.2	3	3.4	73.9
80-84	18	9.5	92.1	7	6.9	97.1	11	12.5	86.4
85+	15	7.9	100.0	3	2.9	100.0	12	13.6	100.0
All ages	190	100.0		102	100.0		88	100.0	

Included in the statistics are 51.5% multiple primaries in males and 33.0% in females.



							Males	Females
			Males	Females	Males	Females	Prop.all	Prop.all
Age at			Age-	Age-	DCO rate	DCO rate	cancers	cancers
diagnosis	Males	Females	spec.	spec.	n=4	n=2	n=91183	n=89596
Years	n	n	incid.	incid.	용	olo	용	용
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		2	0.0	0.2				0.6
25-29		1	0.0	0.1				0.2
30-34		2	0.0	0.2				0.2
35-39			0.0	0.0				
40 - 44	4	2	0.2	0.1			0.2	0.1
45-49	6	4	0.4	0.3			0.2	0.1
50-54	18	3	1.4	0.2			0.4	0.0
55-59	15	5	1.4	0.4	6.7		0.2	0.1
60-64	14	16	1.4	1.5	14.3		0.1	0.2
65-69	15	14	1.6	1.3			0.1	0.1
70-74	14	13	1.5	1.2	7.1		0.1	0.1
75-79	6	3	1.1				0.0	0.0
80-84	7	11	2.0	2.0		\	0.1	0.1
85+	3	12	1.3	2.1		16.7	0.0	0.1
7 7 7	1.00	0.0			2 0	0 0	0 1	0 1
All ages	102	88			3.9	2.3	0.1	0.1
Incidence								
Raw			0.6	0.5				
WS			0.8	0.3				
ES			0.5	0.2				
ES BRD-S			0.5	0.3				
מאט–פ			0.5	0.4				

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).



ICD-10 C06: Malignant neoplasm of other and unspecified parts of mouth Age distribution and age-specific incidence 2007 - 2014 (Males: 102, Females: 88)

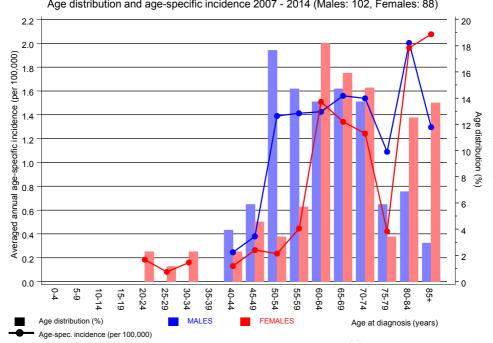


Figure 6. Age distribution and age-specific incidence



ICD-10 C06: Malignant neoplasm of other and unspecified parts of mouth

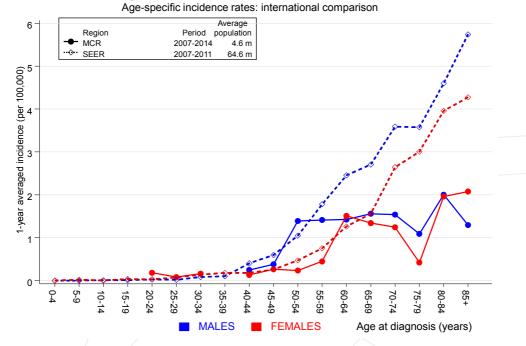


Figure 6a. Age-specific incidence in MCR registry areas compared to SEER (Surveillance, Epidemiology, and End Results, USA).



Reference:

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.

3

Follow-up year since diagnosis

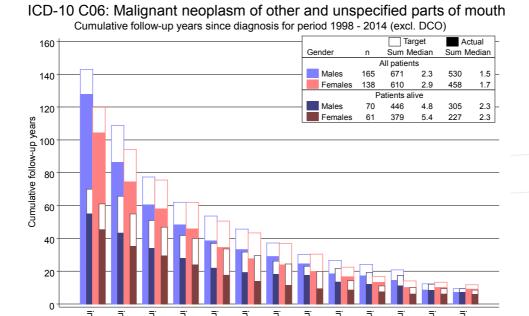


Figure 7. Cumulative follow-up years depending on time since diagnosis

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

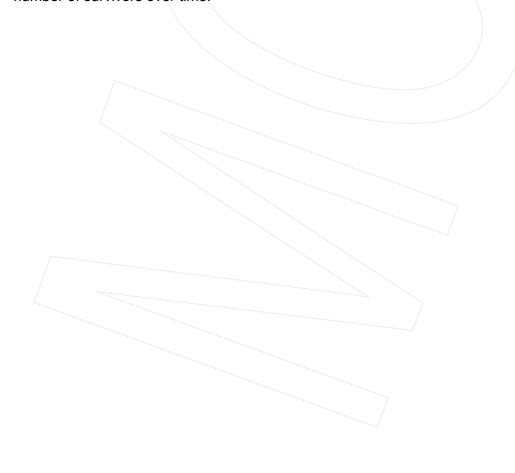


Table 8a

Standardized incidence ratio (SIR, with 95% confidence limits), excess absolute risk (EAR) and DCO rate of second primaries for period 1998-2014

MALES

	Observed Ex	pected		LCL	UCL		DCO
Diagnosis	/ n /	n	SIR	95%	95%	EAR	%
3							
C03-C06 Oral cavity	2 /	0.1	26.0	3.2	94.1 #	36.2	
C09-C10 Oropharynx	2	0.1	20.8	2.5	75.1 #	35.9	
C12-C13 Hypopharynx	2	0.1	38.8	4.7	140.2 #	36.7	
C15 Oesophagus	2	0.2	13.0	1.6	46.8 #	34.8	
C16 Stomach	2	0.3	6.0	0.7	21.5	31.3	
C19-C20 Rectum	2	0.4	4.5	0.5	16.1	29.2	
C33-C34 Lung	7	1.0	7.3	3.0	15.1 #	113.9	
C43 Malign. melanoma	2	0.3	5.7	0.7	20.8	31.1	50.0
C61 Prostate	5	2.4	2.1	0.7	4.9	49.3	20.0
C64 Kidney	2	0.3	7.1	0.9	25.5	32.3	
C82-C85 NHL	3	0.3	9.5	2.0	27.7 #	50.5	
Other primaries	4	1.0	3.9	1.1	10.0 #	56.1	25.0
Not observed	0	1.8	0.0<	0.0	2.1	-33.4	
All mult. primaries	35	8.2	4.2	3.0	5.9 #	504.1	8.6
Patients		1	.67				
Median age at second malig	nancy (years	s) 69	.9				
Person-years		5	31				
Mean observation time (yea	rs)	3	3.2				
Median observation time (y	ears)	1	. 5				
_							

The occurrence of second malignancy is statistically significant.

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

Table 8b

Standardized incidence ratio (SIR, with 95% confidence limits), excess absolute risk (EAR) and DCO rate of second primaries for period 1998-2014

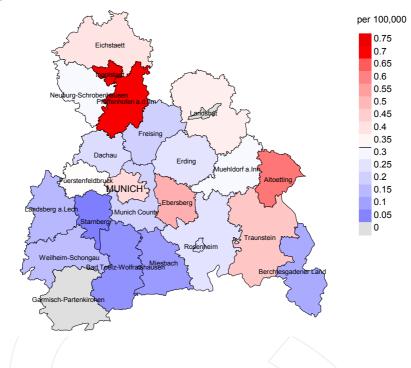
FEMALES	5
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	Observed 1	Expected		LCL	UCL		DCO
Diagnosis	/ n /	n	SIR	95%	95%	EAR	양
C03-C06 Oral cavity	3 /	0.0	91.7	18.9	268.1 #	64.8	
C07-C08 Salivary gland	/ 2/	0.0	219.5	26.6	793.0 #	43.5	
C16 Stomach	2	0.2	10.0	1.2	36.1 #	39.3	50.0
C33-C34 Lung	5	0.4	12.5	4.1	29.3 #	100.5	20.0
C43 Malign. melanoma	2	0.2	10.5	1.3	37.8 #	39.5	50.0
C50 Breast	2	1.6	1.2	0.2	4.5	8.5	
Other primaries	5	0.5	9.2	3.0	21.4 #	97.3	20.0
Not observed	0	2.5	0.0	0.0	1.5	-54.9	
All mult. primaries	21	5.5	3.8	2.4	5.8 #	338.4	19.0
Patients		1	L41 <				
Median age at second maligr	nancy (yea:	rs) 73	3.1				
Person-years		4	158				
Mean observation time (year	îs)	3	3.2				
Median observation time (ye	ears)	1	L.6				

[#] The occurrence of second malignancy is statistically significant.

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

Average incidence (world standard population) 2007 - 2014: Males



Average incidence (world standard population) 2007 - 2014: Females

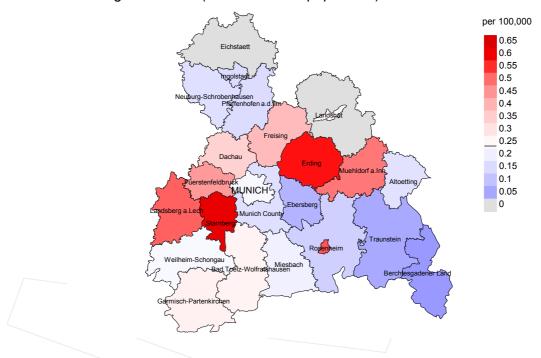
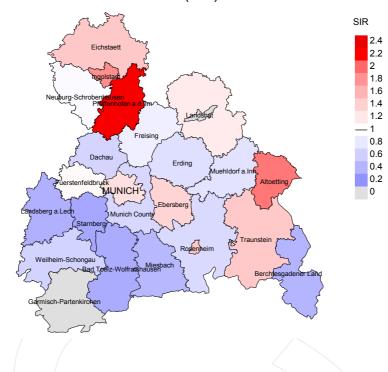


Figure 9a. Map of cancer incidence (world standard population, incl. DCO cases) by county averaged for period 2007 to 2014. According to their individual incidence rates, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population mean (males 0.3/100,000 WS N=102, females 0.2/100,000 WS N=88).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 65,347 female residents (averaged) in the period from 2007 to 2014 a total of 1 women were identified with newly diagnosed mouth cancer NOS. Therefore, the mean incidence rate for this cancer type in this area can be calculated at 0.1/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.0 and 0.5/100,000.

Standardized incidence ratio (SIR) 2007 - 2014: Males



Standardized incidence ratio (SIR) 2007 - 2014: Females

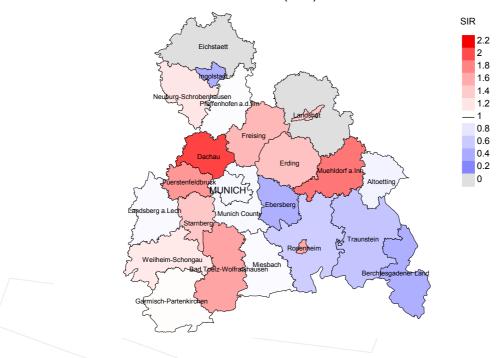


Figure 9b. Map of standardized incidence ratio (SIR, incl. DCO cases) by county averaged for period 2007 to 2014. According to their individual SIR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=102, females N=88).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 64,924 female residents (averaged) in the period from 2007 to 2014 a total of 1 women were identified with newly diagnosed mouth cancer NOS. Therefore, the mean standardized incidence ratio (SIR) for this cancer type in this area can be calculated at 0.43. Though, the value of this parameter may vary with an underlying probability of 99% between 0.00 and 3.18, 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)

						Dwon
		Prop.				Prop. deaths
	Incident	_	Prop.		Prop.	with death
Year of	cases	followed	DCO	Deaths	deaths	
		10110wed	% %		ueaciis %	%
diagnosis	n	6	6	n	0	6
1998	12	100.0		8	66.7	100.0
1999	16	100.0		10	62.5	770.0
2000	17	100.0	5.9	15	88.2	100.0
2001	10	100.0	20.0	7/	70.0	71.4
2002	26	96.2	38.5	22	84.6	95.5
2003	16	93.8	12.5	11	68.8	100.0
2004	20	100.0	10.0	15	75.0	86.7
2005	9	100.0	11.1	8	88.9	100.0
2006	16	100.0		9	56.3	100.0
2007	22	81.8		13	59.1	100.0
2008	17	70.6		10	58.8	100.0
2009	27	74.1		14	51.9	92.9
2010	23	78.3	17.4	14	60.9	100.0
2011	26	92.3		14	53.8	100.0
2012	25	88.0		7	28.0	100.0
2013	45	100.0	2.2	17	37.8	100.0
2014	5	100.0	20.0	5	100.0	80.0
1998-2014	332	91.6	7.2	199	59.9	95.0

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)

			Prop.		
			deaths		Prop.
Year of	Incident		with death	Deaths in	deaths in
diagnosis/	cases	Deaths	certific.	same year	same year
death	n	n	90	n	90
1998	12	8	100.0	/ 1	8.3
1999	16	6	83.3		
2000	17	14	92.9	5	29.4
2001	10	16	81.3	3	30.0
2002	26	21	95.2	14	53.8
2003	1.6	12	100.0	1	6.3
2004	20	18	100.0	5	25.0
2005	9	14	92.9	_ 1	11.1
2006	16	12	91.7	1	6.3
2007	22	9	88.9	2	9.1
2008	17	12	100.0	1	5.9
2009	27	20	90.0	5	18.5
2010	23	15	100.0	6	26.1
2011	26	16	100.0	3	11.5
2012	25	22	100.0	3	4.0
2013	45	24	100.0	12	26.7
2014	5	25	88.0	5	100.0
1998-2014	332	264	94.7	66	19.9

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)

				Prop.
				cancer
		Prop.	Prop.	recorded
		cancer-	non-cancer-	on death
Year of	Deaths	related	related	certificate
death	n	%	90	%
1998	8	100.0		100.0
1999	6	50.0	50.0	80.0
2000	14	35.7	64.3	84.6
2001	16	75.0	25.0	92.3
2002	21	71.4	28.6	90.0
2003	12	83.3	16.7	83.3
2004	18	77.8	22.2	88.9
2005	14	78.6	21.4	84.6
2006	/ 12	66.7	33.3	81.8
2007	9	55.6	44.4	62.5
2008	12	83.3	16.7	91.7
2009	20	75.0	25.0	77.8
2010	15	73.3	26.7	86.7
2011	16	56.3	43.8	81.3
2012	22	81.8	18.2	86.4
2013	24	75.0	25.0	79.2
2014	25	68.0	32.0	81.8
1998-2014	264	71.6	28.4	84.4

 $$\operatorname{\textsc{Table}}\xspace$ 11a $$\operatorname{\textsc{Medians}}\xspace$ of age at death according to the grouping in Table 10 $$\operatorname{\textsc{MALES}}\xspace$

					Age at
		Age at	Age at	Age at	death
		death	death	death	(according
		(all	(cancer-	(non-cancer-	to death
Year of	Deaths	causes)	related)	related)	certificate)
death	n	Years	Years	Years	Years
1998	5	73.9	73.9		73.9
1999	4	62.0	62.0	65.2	56.0
2000	12	65.8	66.1	65.6	67.4
2001	13	69.1	56.6	75.4	69.1
2002	12	62.0	62.8	57.9	61.9
2003	9	63.1	65.9	62.5	65.9
2004	9	73.1	67.5	79.2	70.3
2005	9	65.2	64.5	74.4	64.5
2006	8	70.3	63.7	94.0	64.9
2007	6	70.9	68.1	74.0	68.1
2008	5	82.6	82.6		82.6
2009	10	64.9	64.4	65.4	63.5
2010	8	69.5	60.9	81.7	62.7
2011	10	77.8	77.8	74.3	74.2
2012	13	73.8	73.8	77.3	73.8
2013	12	67.1	68.4	53.1	68.4
2014	14	69.3	69.3	79.9	70.3
1998-2014	159	68.6	68.3	73.1	68.1

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.

 $\begin{array}{c} \text{Table 11b} \\ \text{Medians of age at death according to the grouping in Table 10} \\ \text{FEMALES} \end{array}$

Year of	Dootha	Age at death (all	Age at death (cancer-	Age at death (non-cancer-	Age at death (according to death
	Deaths	causes)	related)	related)	certificate)
death	n	Years	Years	Years	Years
1998	3	60.6	60.6		60.6
1999	2	70.8	61.0	80.6	61.0
2000	2	89.6		89.6	91.0
2001	3	82.8	82.8		82.8
2002	9	81.8	82.4	76.3	81.8
2003	3	55.8	50.5	91.9	50.5
2004	9	73.7	81.4	67.2	77.6
2005	5	78.8	78.8		78.8
2006	4	73.6	69.8	81.4	69.8
2007	4 3 7	84.4	69.4	85.7	69.4
2008	/7	81.2	81.2	84.2	81.6
2009	10	78.8	71.8	85.6	71.8
2010	7	73.0	69.9	88.6	73.0
2011	6	74.0	88.2	73.4	73.4
2012	\9	80.1	80.1	76.7	77.1
2013	12	75.8	70.3	91.2	72.2
2014	11	85.6	66.6	87.3	66.6
1998-2014	105	78.8	74.1	85.4	74.1

By 2010, life expectancy at birth was 77.5 years for boys and 82.6 years for girls.

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	Mort.	MI-Inde	x Mort.	MI-Index	Mort.	MI-Index	Mort.	MI-Index
death	n	raw	raw	WS	WS	ES	ES	BRD-S	BRD-S
1998	5	0.5	0.83	0.3	0.73	0.4	0.80	0.6	0.98
1999	2	0.2	0,25	0.1	0.25	0.2	0.23	0.2	0.18
2000	5	0.4	0.38	0.3	0.34	0.4	0.38	0.5	0.42
2001	9	0.8	1.50	0.5	1.63	0.7	1.55	0.9	1.33
2002	7	0.4	0.50	0.2	0.48	0.3	0.50	0.4	0.52
2003	8	0.4	0.89	0.3	0.91	0.4	0.95	0.4	0.95
2004	7	0.4	0.54	0.2	0.48	0.3	0.49	0.4	0.55
2005	6	0.3	2.00	0.2	2.48	0.3	2.36	0.3	1.56
2006	5	0.3	0.56	0.2	0.62	0.2	0.56	0.2	0.49
2007	4	0.2	0.67	0.1	0.69	0.1	0.62	0.2	0.59
2008	5	0.2	0.50	0.1	0.32	0.1	0.37	0.2	0.51
2009	9	0.4	0.60	0.2	0.68	0.3	0.65	0.4	0.61
2010	5	0.2	0.38	0.1	0.38	0.2	0.39	0.2	0.43
2011	6	0.3	0.50	0.1	0.36	0.2	0.44	0.3	0.56
2012	11	0.5	0.73	0.2	0.52	0.3	0.59	0.4	0.67
2013	9	0.4	0.33	0.2	0.31	0.3	0.32	0.4	0.37
2014	12	0.5	3.00	0.3	2.55	0.4	2.72	0.5	2.94
1998-2014	115	0.4	0.63	0.2	0.58	0.3	0.60	0.4	0.64

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	3	0.3	0.50	0.1	0.42	0.2	0.45	0.2	0.44
1999	1	0.1	0.13	0.1	0.15	0.1	0.13	0.1	0.13
2000									
2001	3	0.2	0.75	0.1	0.51	0.1	0.55	0.2	0.61
2002	8	0.4	0.67	0.1	0.59	0.2	0.60	0.3	0.60
2003	2	0.1	0.29	0.1	0.37	0.1	0.38	0.1	0.35
2004	7	0.4	1.00	0.1	0.89	0.2	0.89	0.3	0.95
2005	5	0.3	0.83	0.1	0.56	0.1	0.65	0.2	0.81
2006	3	0.1	0.43	0.1	0.42	0.1	0.45	0.1	0.45
2007	1	0.0	0.06	0.0	0.07	0.0	0.06	0.0	0.05
2008	5	0.2	0.71	0.1	0.49	0.1	0.56	0.2	0.66
2009	6	0.3	0.50	0.1	0.36	0.1	0.39	0.2	0.40
2010	6	0.3	0.60	0.1	0.68	0.2	0.73	0.2	0.66
2011	3	0.1	0.21	0.0	0.14	0.1	0.15	0.1	0.16
2012	7	0.3	0.70	0.1	0.32	0.1	0.41	0.2	0.47
2013	9	0.4	0.50	0.2	0.40	0.2	0.42	0.3	0.46
2014	5	0.2	5.00	0.1	4.88	0.1	4.35	0.2	4.71
1998-2014	74	0.2	0.50	0.1	0.41	0.1	0.43	0.2	0.45

Table 13

Age distribution of age at death (cancer-related) for period 2007-2014

(incl. multiple primaries)

Age at									
death	Cases			Males			Females		
Years	n	%	Cum.%	n	양	Cum.%	n	olo	Cum.%
20-24	1	1.0	1.0			0.0	1	2.4	2.4
25-29	0	0.0	1.0			0.0			2.4
30-34	0	0.0	1.0/			0.0			2.4
35-39	0	0.0	1.0			0.0			2.4
40 - 44	1	1.0	1.9			0.0	1	2.4	4.8
45-49	2	1.9	3.8	1	1.6	1,6	1	2.4	7.1
50-54	5	4.8	8.7	3	4.8	6.5	2	4.8	11.9
55-59	6	5.8	14.4	6	9.7	16.1			11.9
60-64	14	13.5	27.9	12	19.4	35.5	2	4.8	16.7
65-69	19	18.3	46.2	9	14.5	50.0	10	23.8	40.5
70-74	20	19.2	65.4	13	21.0	71.0	7	16.7	57.1
75-79	6	5.8	71.2	5	8.1	79.0	1	2.4	59.5
80-84	13	12.5	83.7	7	11.3	90.3	6	14.3	73.8
85+	17	16.3	100.0	6	9.7	100.0	11	26.2	100.0
All ages	104	100.0		62	100.0		42	100.0	

Included in the statistics are 51.5% multiple primaries in males and 33.0% in females.



Table 14

Age-specific mortality (cancer-related) and proportion of all cancers for period 2007-2014 (incl. multiple primaries)

			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	용	용
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		1	0.0		0.1	0.50		3.6
25-29			0.0		0.0			
30-34			0.0		0.0			
35-39			0.0		0.0			
40 - 44		1	0.0		0.1	0.50		0.2
45-49	1	1	0.1		0.1	0.25	0.1	0.1
50-54	3 /	2	0.2	0.17	0.2	0.67	0.2	0.1
55-59	6		0.6	0.40	0.0		0.2	
60-64	12	2	1.2	0.86	0.2	0.13	0.3	0.1
65-69	9	10	0.9	0.60	1.0	0.71	0.1	0.2
70-74	13	\ 7	1.4	0.93	0.7	0.54	0.1	0.1
75-79	5	\1	0.9	0.83	0.1	0.33	0.1	0.0
80-84	7	6	2.0	1.00	1.1	0.55	0.1	0.1
85+	6	11	2.6	2.00	1.9	0.92	0.1	0.1
All ages	62	42					0.1	0.1
Mortality								
Raw			0.3	0.61	0.2	0.48		
WS			0.2	0.54	0.1	0.38		
ES			0.3	0.56	0.1	0.40		
BRD-S			0.3	0.62	0.2	0.42		
PYLL-70								
per 100,000			1.6		1.1			
ES			1.5		1.0			
AYLL-70			8.5		10.1			
-					-			

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

Table 15a $\begin{tabular}{ll} Multiple primaries in deaths in period 1998-2014 \\ \hline MALES \end{tabular}$

					Syn-	Syn-		
					chron	chron		
	Total	Total	Pre	Pre	±30d	±30d	Post	Post
Diagnosis	n	%↓	n		n	±30a ←%	n	%
Diagnosis	/11	○ ↓	11	- 0	11	← 0	11	← °
C00 Lip	2	2.8	1	50.0	1	50.0		
<u> </u>	7	9.9	1	30.0	1	30.0	7	100.0
C03-C06 Oral cavity	3		2	00 7			•	33.3
C09-C10 Oropharynx	3	4.2		66.7	/ 4	22.2	1	
C12-C13 Hypopharynx		4.2	1	33.3	/ 1	33.3	1	33.3
C15 Oesophagus	3	4.2	2	66.7			1	33.3
C16 Stomach	3	4.2		_			3	100.0
C17 Small intestine	1	1.4	1	100.0				
C18 Colon	3	4.2					3	100.0
C22 Liver	4	5.6					4	100.0
C25 Pancreas	1	1.4	1	100.0				
C30-C31 Sinuses	1	1.4					1	100.0
C32 Larynx	3	4.2	3	100.0				
C33-C34 Lung	14	19.7	2	14.3/			12	85.7
C43 Malign. melanoma	3	4.2	2	66.7			1	33.3
C44 Skin others	6	8.5	3	50.0	1	16.7	2	33.3
C61 Prostate	6	8.5	3	50.0			3	50.0
C62 Testis	1	1.4	1	100.0				
C63 Male urogen.	1	1.4	1	100.0				
C64 Kidney	2	2.8	1	50.0	1	50.0		
C65 Renal pelvis		1.4	-	00.0	-		1	100.0
C67 Bladder	1 2	2.8					2.	100.0
C76-C79 CUP	1	1.4					1	100.0
0.0 0.0 001	<u> </u>						_	100.0
All mult. primaries						/		
1111 INGLE PLINGLICS	71	100.0	24	33.8	4	5.6	43	60.6

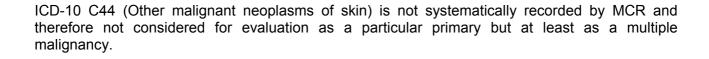


Table 15b

Multiple primaries in deaths in period 1998-2014
FEMALES

					Syn-	Syn-		
					chron	chron		
	Total	Total	Pre	Pre	±30d	±30d	Post	Post
Diagnosis	n	% ↓	n	←%	n	← %	n	← %
C03-C06 Oral cavity	8	19.0			1	12.5	7	87.5
C09-C10 Oropharynx	/ 1/	2.4					1	100.0
C11 Nasopharynx	1	2.4					1	100.0
C12-C13 Hypopharynx	_ 1	2.4					1	100.0
C14 ENT cancer	1	2.4					1	100.0
C15 Oesophagus	1	2.4					1	100.0
C16 Stomach	2	4.8			1	50.0	1	50.0
C22 Liver	1	2.4					1	100.0
C25 Pancreas	1	2.4					1	100.0
C32 Larynx	1	2.4					1	100.0
C33-C34 Lung	9	21.4	1	11.1	2	22.2	6	66.7
C43 Malign. melanoma	1	2.4					/1	100.0
C44 Skin others	2	4.8			1	50.0	1	50.0
C50 Breast	6	14.3	5	83.3			1	16.7
C52 Vagina	1	2.4	1	100.0				
C53 Cervix uteri	2	4.8	1	50.0			1	50.0
C56 Ovary	1	2.4	1	100.0				
C70-C72 CNS cancer	1	2.4					1	100.0
C82-C85 NHL	1	2.4					1	100.0
All mult. primaries	42	100.0	9	21.4	5	11.9	28	66.7

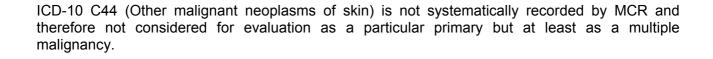


Table 16

Age-specific mortality (cancer-related) and proportion of all cancers for period 2007-2014

(First primaries only *)

Age at death Years	Males n	Females	Males Age- spec. mortal.	MI-index	Females Age- spec. mortal.	MI-index	cancers	Females Prop.all cancers %
0- 4 5- 9 10-14 15-19			0.0 0.0 0.0		0.0 0.0 0.0 0.0			
20-24 25-29 30-34 35-39		1	0.0 0.0 0.0		0.1 0.0 0.0 0.0	0.50		3.8
40-44 45-49 50-54 55-59	1 2 3	1	0.0 0.1 0.2 0.3	0.20 0.17 0.38	0.1 0.0 0.2 0.0	1.00	0.1 0.1 0.1	0.2
60-64 65-69 70-74 75-79	8 7 11 5	2 6 5 1	0.8 0.7 1.2 0.9		0.2 0.6 0.5 0.1		0.2 0.1 0.2 0.1	0.1 0.1 0.1 0.0
80-84 85+ All ages	5 4 46	5 9 32	1.4	1.25	0.9	0.56 0.75	0.1 0.1 0.1	0.1 0.1
Mortality Raw WS ES BRD-S	10	32	0.3 0.1 0.2 0.2	0.69 0.58 0.62 0.70	0.2 0.1 0.1 0.1	0.45 0.35 0.37 0.39	/ 0.1	0.1
PYLL-70 per 100,000 ES AYLL-70			1.1 0.9 8.2		0.9 0.8 11.7			

^{*} See corresponding tables with multiple primaries.

Table 17

Age-specific mortality (cancer-related) and proportion of all cancers for period 2007-2014 (Single primaries only *)

Age at death Years	Males n	Females	Males Age- spec. mortal.	MI-index	Females Age- spec. mortal.	MI-index	cancers	Females Prop.all cancers
0- 4 5- 9			0.0		0.0			
10-14			0.0		0.0			
15-19			0.0		0.0			
20-24		1	0.0		0.1	0.50		4.2
25-29			0.0		0.0			
30-34			0.0		0.0			
35-39		1	0.0		0.0	1 00		0 0
40-44 45-49	1	1	0.0	0.20	0.1	1.00	0.1	0.2
50-54	Τ.	1	0.0	0.20	0.0	0.50	0.1	0.1
55-59	3		0.3	0.38	0.0	0.30	0.1	0.1
60-64	5	/1	0.5	0.56	0.1	0.07	0.1	0.0
65-69	7	5	0.7	0.88	0.5	1.00	0.1	0.1
70-74	7	3	0.8	0.88	0.3	0.43	0.1	0.1
75-79	3		0.5		0.0		0.1	
80-84	3	3	0.9		0.5	0.38	0.1	0.1
85+	3	5	1.3	3.00	0.9	0.50	0.1	0.1
All ages	32	20					0.1	0.1
26 1 2 1 1								
Mortality			0.2	0.52	0.1	0.32		
Raw WS			0.2	0.52	0.0	0.32		
ES			0.1	0.47	0.1	0.28		
BRD-S			0.2	0.53	0.1	0.28		
DIO 6			0.2	0.33	0.1	0.20		
PYLL-70								
per 100,000)		0.7		0.7			
ES 70			0.6		0.7			
AYLL-70			7.2		12.5			

^{*} See corresponding tables with multiple primaries.

ICD-10 C06: Malignant neoplasm of other and unspecified parts of mouth

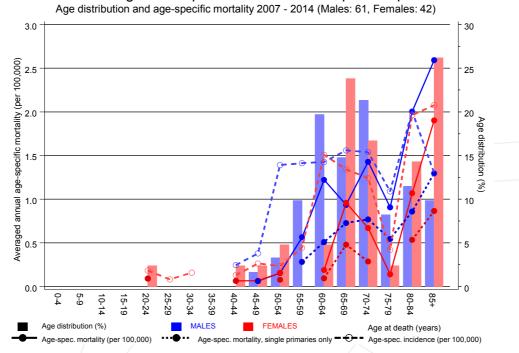
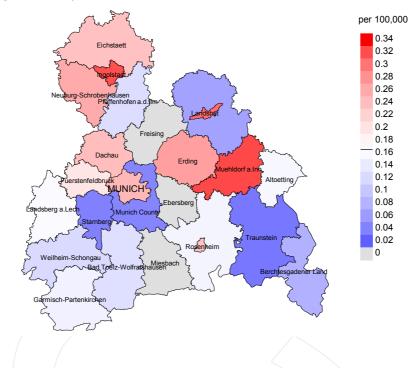


Figure 18. Distribution of age at death (bars) and age-specific mortality (all patients: solid line, patients with single primaries: dotted line). The age-specific incidence is additionally plotted for comparison (dashed line).

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



Average mortality (world standard population) 2007 - 2014: Males



Average mortality (world standard population) 2007 - 2014: Females

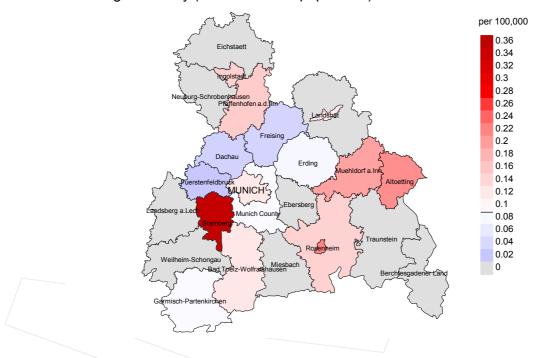
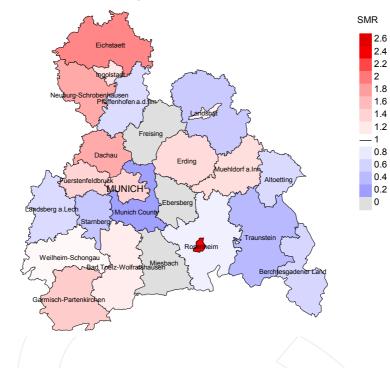


Figure 19a. Map of cancer mortality (world standard population) by county averaged for period 2007 to 2014. According to their individual mortality rates, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population mean (males 0.2/100,000 WS N=60, females 0.1/100,000 WS N=42).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 65,347 female residents (averaged) in the period from 2007 to 2014 a total of 0 women died from mouth cancer NOS. Therefore, the mean mortality rate for this cancer type in this area can be calculated at 0.0/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.0 and 1.0/100,000.

Standardized mortality ratio (SMR) 2007 - 2014: Males



Standardized mortality ratio (SMR) 2007 - 2014: Females

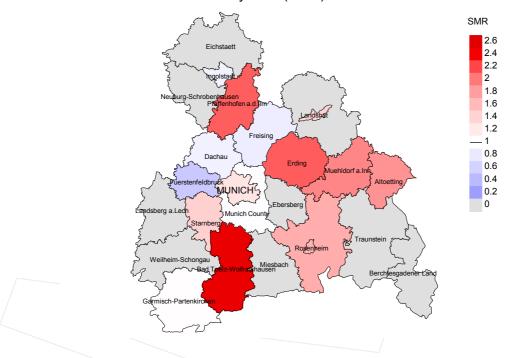


Figure 19b. Map of standardized mortality ratio (SMR, incl. DCO cases) by county averaged for period 2007 to 2014. According to their individual SMR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=60, females N=42).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 64,924 female residents (averaged) in the period from 2007 to 2014 a total of 0 women died from mouth cancer NOS. Therefore, the mean standardized mortality ratio (SMR) for this cancer type in this area can be calculated at 0.00. Though, the value of this parameter may vary with an underlying probability of 99% between 0.00 and 4.81, 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, where applicable. 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

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Index of figures and tables

Fig./Tb	l.	Page
1	Pts cohorts, DCO, mult. prim., follow-up / yr	3
1a	Gender distribution by year of diagnosis	4
2	Incidence by year of diagnosis	5
3	Age distribution parameters by year of diagnosis	6
4	Age distribution by 5-year age group and gender	8
5	Age-specific incidence, DCO rate, proportion malignancies	9
6	Age distribution and age-specific incidence (chart)	10
6a	Age-specific incidence internationally (chart)	11
7	Cumulative follow-up years (chart)	12
8	Standardized incidence ratio of second primaries	13
9a	Map of cancer incidence (WS) by county (chart)	15
9b	Standardized incidence ratio (SIR) by county (chart)	16
10a	Pts incident cohorts and mortality / yr	17
10b	Incidence and mortality by year of diagnosis	18
10c	Cancer-related deaths, death certification available / yr	19
11	Medians of age at death / yr	20
12	Mortality by year of death	22
13	Distribution of age at death	23
14	Age-specific mortality	24
15	Multiple primaries in deaths	25
16	Age-specific mortality (first primaries)	27
17	Age-specific mortality (single primaries)	28
18	Age distribution and age-specific mortality (chart)	29
19a	Map of cancer mortality (WS) by county (chart)	30
19b	Standardized mortality ratio (SMR) by county (chart)	31