Munich Cancer Registry



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

ICD-10 C05: Palate cancer

Incidence and Mortality

Year of diagnosis	1998-2020
Patients	488
Diseases	488
Creation date	12/20/2021
Database export	12/20/2021
Population	4.95 m



Munich Cancer Registry
Cancer Registry Bavaria - Upper Bavaria Regional Center
at Klinikum Grosshadern/IBE
Marchioninistr. 15
Munich, 81377
Germany

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

https://www.tumorregister-muenchen.de/en/facts/base/bC05__E-ICD-10-C05-Palate-cancer-incidence-and-mortality.pdf

Index of figures and tables

Fig./Tbl	l.	Page
1	Annual cases, DCO, mult. malignancies, follow-up / yr	4
2	Incidence by year of diagnosis	7
3	Age distribution parameters by year of diagnosis	8
4	Age distribution by 5-year age group and sex	11
5	Age-specific incidence, DCO rate, proportion malignancies	12
6	Age distribution and age-specific incidence (chart)	13
6a	Age-specific incidence internationally (chart)	14
7	Standardized incidence ratio of further malignancies	15
8a	Map of cancer incidence (BRD-S) by county (chart)	17
8b	Standardized incidence ratio (SIR) by county (chart)	18
9a	Pts incident cohorts and mortality / yr	19
9b	Incidence and mortality by year of diagnosis	20
9c	Cancer-related deaths, death certification available / yr	21
10	Medians of age at death / yr	22
11	Mortality by year of death	24
12	Distribution of age at death	26
13	Age-specific mortality	27
14	Further malignancies in deaths	28
15	Age-specific mortality (first primaries)	30
16	Age-specific mortality (single primaries)	31
17	Age distribution and age-specific mortality (chart)	32
18a	Map of cancer mortality (BRD-S) by county (chart)	33
18b	Standardized mortality ratio (SMR) by county (chart)	34

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 4.69 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, December 2021

- 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 2.65 million to 4.10 in 2002, and to 4.69 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
C05 C05.0 C05.1 C05.2 C05.8 C05.9	Malignant neoplasm of palate Hard palate Soft palate Uvula Overlapping lesion of palate Palate, unspecified
	, I

INCIDENCE

Table 1

Cases with invasive cancer by year of diagnosis, proportions of DCO, further malignancies, deaths, and active follow-up (ALL PATIENTS) (incl. DCO)

				Prop.			
				at least	Prop.		
				1 further	at least		
				malign.	1 further		Prop.
	All	DCO	Prop.	prior +	malign.	Prop.	actively
Year of	cases	cases	DCO	synchron.	after	deaths	followed
diagnosis	n	n	%	%	%	%	왕
1998	14			7.1	21.6	78.6	100.0
1999	14			7.1	21.4	78.6	100.0
2000	12			5.0	20.7	91.7	100.0
2001	14	/ 1 /	7.1	3.7	20.8	85.7	100.0
2002	17 /			8.5	20.3	88.2	100.0 #
2003	27			11.2	20.4	81.5	100.0
2004	30	1	3.3	10.9	19.7	76.7	100.0
2005	18	1	5.6	9.6	19.6	77.8	100.0
2006	7			9.8	19.6	57.1	100.0
2007	26			12.8	19.0	73.1	92.3 #
2008	33			12.7	19.3	63.6	93.9
2009	32			13.9	17.7	68.8	100.0
2010	42	1	2.4	15.4	16.1	54.8	95.2
2011	30	1	3.3	16.1	15.8	60.0	100.0
2012	31	1	3.2	17.3	14.8	51.6	96.8
2013	34			17.8	12.1	47.1	100.0
2014	29	1	3.4	19.0	12.7	41.4	96.6
2015	28			18.7	14.9	39.3	96.4
2016	16			19.6	19.6	37.5	100.0
2017	15	1	6.7	21.1	16.7	60.0	100.0
2018	14			21.3	12.5	28.6	100.0
2019	3			21.2	66.7		100.0
2020	2			21.3	0.0		100.0 ##
1998-2020	488	8	1.6	21.3	21.6	61.5	98.2

488 cases diagnosed 1998-2020 are related to a total of 488 patients. Currently, in 200 (41.0 %) of these 488 patients more than one malignancy of any cancer type has been registered. Hereby, groups of 135 / 47 / 18 (27.7 % / 9.6 % / 3.7 %) patients exist having 2 / 3 / 4+ malignancies.

How to interpret:

In 2018, a subgroup of 14 cases has been diagnosed, of which 21.3 % previously and/or concurrently (synchronously) had at least one other malignancy of any cancer type. In 12.5 % of cases, at least one new malignancy has occurred during the follow-up period (all numbers refer to the date of the database export, see cover sheet).

[#] 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 retreived from the respective headings.

Table 1a

Cases with invasive cancer by year of diagnosis, proportions of DCO, further malignancies, deaths, and active follow-up (MALES) (incl. DCO)

					Prop.			
					at least	Prop.		
					1 further	at least		
					malign.	1 further		Prop.
			DCO	Prop.	prior +	malign.	Prop.	actively
Year of	Males	Males	cases	DCO	synchron.	after	deaths	followed
diagnosis	n	%	n	%	%	90	%	%
1998	7	50.0			0.0	23.8	71.4	100.0
1999	8	57.1			6.7	23.3	87.5	100.0
2000	9	75.0			4.2	22.9	88.9	100.0
2001	9	64.3			3.0	23.2	100.0	100.0
2002	14	82.4			8.5	22.5	92.9	100.0 #
2003	19	70.4			12.1	23.0	84.2	100.0
2004	19	63.3			11.8	21.4	73.7	100.0
2005	10	55.6			10.5	21.9	80.0	100.0
2006	4	57.1			11.1	22.0	75.0	100.0
2007	20	76.9			15.1	21.5	80.0	90.0 #
2008	26	78.8			15.2	21.6	61.5	96.2
2009	20	62.5			17.0	19.3	70.0	100.0
2010	29	69.0	1	3.4	19.1	16.3	55.2	96.6
2011	22	73.3			19.9	15.2	63.6	100.0
2012	22	71.0	1	4.5	20.6	13.3	63.6	100.0
2013	19	55.9			20.2	9.5	68.4	100.0
2014	22	75.9	1	4.5	21.5	8.8	45.5	100.0
2015	22	78.6			21.3	10.6	40.9	100.0
2016	9	56.3			22.3	16.0	44.4	100.0
2017	7	46.7			23.3	6.3	71.4	100.0
2018	10	71.4			23.5	0.0	40.0	100.0
2019	_ 1	33.3			23.5			100.0
2020	0 #	##						
1998-2020	328	67.2	3	0.9	23.5	23.8	66.5	98.8

328 cases diagnosed 1998-2020 are related to a total of 328 patients. Currently, in 148 (45.1 %) of these 328 patients more than one malignancy of any cancer type has been registered. Hereby, groups of 100 / 34 / 14 (30.5 % / 10.4 % / 4.3 %) patients exist having 2 / 3 / 4+ malignancies.

- # 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 retreived from the respective headings.

How to interpret:

In 2018, a subgroup of 10 cases has been diagnosed, of which 23.5 % previously and/or concurrently (synchronously) had at least one other malignancy of any cancer type. In 0.0 % of cases, at least one new malignancy has occurred during the follow-up period (all numbers refer to the date of the database export, see cover sheet).

Table 1b

Cases with invasive cancer by year of diagnosis, proportions of DCO, further malignancies, deaths, and active follow-up (FEMALES) (incl. DCO)

					Prop. at least 1 further malign.	1 further		Prop.
			DCO	Prop.	-	malign.	Prop.	actively
Year of		Females	cases	DCO	synchron.		deaths	
diagnosis	n	ଚ୍ଚ	n	%	୦ ଚ	olo	90	%
1998	7	50.0			14.3	17.4	85.7	100.0
1999	6	42.9			7.7	17.6	66.7	100.0
2000	3	25.0			6.3	16.2	100.0	100.0
2001	5	35.7	1	20.0	4.8	15.8	60.0	100.0
2002	3	17.6			8.3	15.7	66.7	100.0 #
2003	8	29.6			9.4	15.3	75.0	100.0
2004	11	36.7	1	9.1	9.3	16.3	81.8	100.0
2005	8	44.4	1	12.5	7.8	15.2	75.0	100.0
2006	3 /	42.9			7.4	14.4	33.3	100.0
2007	6 /	23.1			8.3	13.9	50.0	100.0 #
2008	7	21.2			7.5	14.6	71.4	85.7
2009	12	37.5			7.6	14.6	66.7	100.0
2010	13	31.0			7.6	15.6	53.8	92.3
2011	8	26.7	1	12.5	8.0	16.9	50.0	100.0
2012	9	29.0			10.1	17.5	22.2	88.9
2013	15	44.1			12.9	16.7	20.0	100.0
2014	7	24.1			13.7	20.6	28.6	85.7
2015	6	21.4			13.1	22.2	33.3	83.3
2016	7	43.8			13.9	23.8	28.6	100.0
2017	8	53.3	1	12.5	16.4	28.6	50.0	100.0
2018	4	28.6			16.7	33.3		100.0
2019	2	66.7			16.5	66.7		100.0
2020	2	100.0			16.9	0.0		100.0 ##
1998-2020	160	32.8	5	3.1	16.9	17.4	51.3	96.9

160 cases diagnosed 1998-2020 are related to a total of 160 patients. Currently, in 52 (32.5 %) of these 160 patients more than one malignancy of any cancer type has been registered. Hereby, groups of 35 / 13 / 4 (21.9 % / 8.1 % / 2.5 %) patients exist having 2 / 3 / 4+ malignancies.

- # 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 retreived from the respective headings.

How to interpret:

In 2018, a subgroup of 4 cases has been diagnosed, of which 16.7 % previously and/or concurrently (synchronously) had at least one other malignancy of any cancer type. In 33.3 % of cases, at least one new malignancy has occurred during the follow-up period (all numbers refer to the date of the database export, see cover sheet).

Table 2

Incidence measures by year of diagnosis including DCO cases (with respect to registry area expansion from 2.65 to 4.10 m as of 2002, and from 4.10 to 4.94 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	7	7	0.6	0.6	0.4	0.4	0.6	0.5	0.6	0.6
1999	8	6	0.7	0.5	0.5	0.4	0.6	0.5	0.6	0.5
2000	9	3 /	0.8	0.2	0.5	0.1	0.7	0.1	0.8	0.2
2001	9	5 /	0.8	0.4	0.5	0.2	0.7	0.3	0.8	0.4
2002	14	3 <	0.8	0.2	0.5	0.1	0.7	0.1	0.7	0.1
2003	19	8	1.0	0.4	0.7	0.3	0.9	0.3	1.0	0.4
2004	19	11	1.0	0.6	0.7	0.3	0.9	0.4	1.0	0.5
2005	10	8	0.5	0.4	0.3	0.2	0.5	0.3	0.5	0.4
2006	4	3	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2
2007	20	6	0.9	0.3	0.5	0.2	0.8	0.2	0.9	0.2
2008	26	7	1.2	0.3	0.8	0.2	1.1	0.3	1.1	0.3
2009	20	12	0.9	0.5	0.5	0.3	0.7	0.4	0.8	0.5
2010	29	13	1.3	0.6	0.8	0.3	1.1	0.5	1.2	0.5
2011	22	8	1.0	0.3	0.6	0.2	0.8	0.2	0.9	0.3
2012	22	9	1.0	0.4	0.6	0.2	0.8	0.3	0.9	0.4
2013	19	15	0.8	0.6	0.5	0.3	0.7	0.5	0.8	0.5
2014	22	\ 7	0.9	0.3	0.5	0.2	0.7	0.2	0.8	0.2
2015	22	6	0.9	0.2	0.5	0.2	0.7	0.2	0.8	0.2
2016	9	7	0.4	0.3	0.2	0.2	0.3	0.2	0.3	0.2
2017	7	8	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2
2018	10	4	0.4	0.2	0.2	0.1	0.3	0.1	0.4	0.1
2019	1	2	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1
2020		2		0.1		0.1		0.1		0.1
1998-2020	328	160	0.7	0.3	0.4	0.2	0.6	0.3	0.7	0.3

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

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	14	58.7	10.6	40.9	82.2	45.5	49.7	60.3	64.8	66.9
1999	14	51.5	9.6	30.7	66.7	40.8	43.9	53.4	58.3	60.5
2000	12	65.3	11.8	47.9	85.1	50.7	56.1	64.4	74.1	79.7
2001	14	58.6	11.5	38.7	75.6	46.3	50.1	58.1	70.7	75.5
2002	17	58.1	12.2	35.8	82.6	42.4	50.5	59.1	62.3	74.5
2003	27	58.1	13.0	32.6	82.1	44.5	50.8	56.5	65.3	79.8
2004	30	60.7	15.5	26.4	97.9	45.4	51.2	61.3	69.3	80.2
2005	18	59.7	11.3	39.8	83.4	44.5	50.3	61.1	68.1	73.9
2006	7	55.1	16.0	22.6	69.2	22.6	50.2	57.8	69.0	69.2
2007	26	63.0	11.6	31.7	86.3	50.2	57.9	63.7	70.3	75.5
2008	33	58.7	8.6	43.5	87.7	49.3	53.4	57.6	64.2	66.8
2009	32	60.8	11.9	40.7	89.3	46.2	53.3	58.4	69.7	72.7
2010	42	63.0	12.0	35.9	91.6	50.2	54.2	62.6	70.2	78.1
2011	30	60.4	13.0	32.8	87.2	45.3	55.3	58.0	69.8	76.2
2012	31 /	61.7	12.0	21.6	78.8	50.9	57.4	63.8	67.5	76.0
2013	34	63.3	10.9	35.7	83.9	49.3	57.3	65.5	70.5	75.7
2014	29	64.1	12.4	33.5	89.6	48.9	56.8	65.1	72.0	80.1
2015	28	61.0	9.1	45.4	80.8	52.3	55.2	57.8	67.1	76.7
2016	16	62.7	12.2	41.2	82.4	43.2	54.1	63.4	71.2	77.7
2017	15 \	68.9	12.2	48.0	96.5	49.8	64.5	68.6	74.7	87.4
2018	14	66.0	9.5	46.7	78.2	52.8	59.7	65.7	74.5	76.8
2019	3	62.8	6.4	55.8	68.3	55.8	55.8	64.2	68.3	68.3
2020	2	43.2	17.5	30.8	55.6	30.8	30.8	43.2	55.6	55.6
1998-2020	488	61.1	12.0	21.6	97.9	46.7	53.4	60.8	68.8	76.0

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	7	54.2	6.9	45.5	62.0	45.5	46.4	56.1	60.3	62.0
1999	8	53.4	7.3	40.8	60.5	40.8	48.5	55.5	58.7	60.5
2000	9	62.4	10.1	47.9	79.7	47.9	54.9	61.6	69.1	79.7
2001	9	55.4	10.8	38.7	75.6	38.7	48.5	56.4	60.6	75.6
2002	14	58.2	9.9	42.4	74.5	42.7	50.5	59.3	62.3	72.1
2003	19	58.6	9.8	44.5	82.1	44,5	51.5	57.6	65.1	72.4
2004	19	58.5	13.4	29.7	88.7	45.2	48.7	59.1	65.1	76.6
2005	10	58.6	10.3	39.8	70.0	43.8	51.4	60.6	68.1	69.4
2006	4	61.0	6.5	54.2	69.2	54.2	56.0	60.3	66.0	69.2
2007	20	62.7	12.7	31.7	86.3	47.5	56.4	63.4	69.9	78.0
2008	26	58.3	9.2	43.5	87.7	46.9	53.4	57.5	64.2	66.7
2009	20	60.6	11.0	40.7	82.3	46.9	51.2	60.6	69.7	70.9
2010	29	63.6	10.4	35.9	87.2	50.7	57.9	64.1	70.2	75.1
2011	22	58.1	10.5	32.8	73.6	47.1	52.4	57.7	67.3	72.3
2012	22 /	62.0	13.5	21.6	78.8	50.9	58.6	64.4	67.8	77.4
2013	19	61.6	10.8	35.7	82.0	49.3	55.1	63.2	69.9	75.7
2014	22	64.9	11.6	43.0	89.6	49.6	57.8	63.5	72.5	80.1
2015	22	62.2	9.5	45.4	80.8	53.3	56.1	58.6	67.5	76.7
2016	9	66.9	10.6	52.4	82.4	52.4	57.5	69.6	76.0	82.4
2017	7 \	65.4	8.7	48.0	74.7	48.0	61.1	68.7	70.1	74.7
2018	10	66.8	9.5	46.7	76.8	52.7	59.7	69.4	74.5	76.0
2019	1	68.3		68.3	68.3	68.3	68.3	68.3	68.3	68.3
1998-2020	328	60.9	10.9	21.6	89.6	47.2	53.6	60.2	68.2	75.1

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	7	63.3	12,2	40.9	82.2	40.9	60.4	64.8	66.9	82.2
1999	6	49.0	12.3	30.7	66.7	30.7	40.8	50.2	55.1	66.7
2000	3	73.7	14.5	57.3	85.1	57.3	57.3	78.7	85.1	85.1
2001	5	64.2	11.7	50.1	75.5	50.1	53.2	70.7	71.4	75.5
2002	3	57.7	23.5	35.8	82.6	35.8	35.8	54.9	82.6	82.6
2003	8	56.9	19.5	32.6	81.2	32.6	41.0	52.2	77.3	81.2
2004	11	64.6	18.7	26.4	97.9	48.9	54.6	64.8	77.2	83.1
2005	8	61.2	13.0	44.5	83.4	44.5	50.3	61.1	69.3	83.4
2006	3	47.3	23.3	22.6	69.0	22.6	22.6	50.2	69.0	69.0
2007	6	64.1	7.8	51.0	71.4	51.0	60.3	65.4	70.7	71.4
2008	7	60.0	6.6	51.5	69.0	51.5	53.4	59.7	66.8	69.0
2009	12	61.2	13.7	41.9	89.3	43.1	55.2	58.1	68.3	79.6
2010	13	61.5	15.5	38.5	91.6	47.0	53.1	58.6	65.8	83.9
2011	8	66.7	17.6	34.7	87.2	34.7	56.7	66.4	82.6	87.2
2012	9 /	61.0	8.0	46.0	75.5	46.0	57.4	60.9	64.3	75.5
2013	15	65.6	10.9	41.3	83.9	44.7	63.2	67.5	70.8	77.4
2014	7	61.9	15.4	33.5	79.5	33.5	53.1	68.3	71.4	79.5
2015	6	56.7	6.4	52.0	69.2	52.0	53.3	54.1	57.7	69.2
2016	7	57.3	12.7	41.2	71.6	41.2	43.2	55.8	70.9	71.6
2017	8	72.0	14.4	49.8	96.5	49.8	65.2	68.3	81.3	96.5
2018	4	64.0	10.5	52.8	78.2	52.8	57.3	62.5	70.7	78.2
2019	2	60.0	5.9	55.8	64.2	55.8	55.8	60.0	64.2	64.2
2020	2	43.2	17.5	30.8	55.6	30.8	30.8	43.2	55.6	55.6
1998-2020	160	61.7	14.1	22.6	97.9	43.2	53.2	62.1	70.4	80.5

Age at									
diagnosis	Cases			Males			Females		
Years	n	응	Cum.%	'n	%	Cum.%	n	왕	Cum.%
0 - 4									
5-9									
10-14									
15-19									
20-24	1	0.3	0.3	_ 1	0.4	0.4			0.0
25-29	0	0.0	0.3			0.4			0.0
30-34	5	1.5	1.8	2	0.9	1.3	3	2.8	2.8
35-39	4	1.2	3.0	3	1.3	2.6	1	0.9	3.8
40 - 44	11	3.3	6.3	5	2.2	4.8	6	5.7	9.4
45-49	19	5.7	11.9	15	6.6	11.4	4	3.8	13.2
50-54	40	11.9	23.9	27	11.8	23.1	13	12.3	25.5
55-59	73	21.8	45.7	52	22.7	45.9	21	19.8	45.3
60-64	42	12.5	58.2	28	12.2	58.1	14	13.2	58.5
65-69	59	17.6	75.8	41	17.9	76.0	18	17.0	75.5
70-74	37	11.0	86.9	27	11.8	87.8	10	9.4	84.9
75-79	23	6.9	93.7	16	7.0	94.8	7	6.6	91.5
80-84	11	3.3	97.0	8	3.5	98.3	3	2.8	94.3
85+	10	3.0	100.0	4	1.7	100.0	6	5.7	100.0
All ages	335	100.0		229	100.0		106	100.0	

Table 5 $\label{eq:Age-specific} \mbox{Age-specific incidence, DCO rate and proportion of all cancers} \\ \mbox{for period 2007-2020}$

							Males	Females
			Males	Females	Males	Females		Prop.all
Age at				Age-		DCO rate	_	_
diagnosis	Males	Females	/=	spec.	n=3	n=2		n=155051
Years	n	n		incid.	%	%	%	%
0- 4								
5- 9								
10-14								
15-19								
20-24	1		0.0				0.2	
25-29								
30-34	2	3	0.1	0.1			0.2	0.1
35-39	3	1	0.1	0.0			0.2	0.0
40 - 44	5	6	0.2	0.2			0.2	0.1
45-49	15	4	0.6	0.2			0.3	0.0
50-54	27	13	1.1	0.5			0.3	0.1
55-59	52	21	2.4	1.0			0.4	0.2
60-64	28	14	1.6	0.7			0.2	0.1
65-69	41	18	2.5	1.0			0.2	0.1
70-74	27	10	1.8	0.6			0.1	0.1
75-79	16	7	1.3	0.5	6.3		0.1	0.0
80-84	8	3 \	1.1	0.3			0.1	0.0
85+	4	6	0.9	0.6	25.0	33.3	0.0	0.0
All ages	229	106			1.3	1.9	0.1	0.1
Incidence								
Raw			0.7	0.3				
WS			0.4	0.2				
ES			0.6	0.2				
BRD-S			0.6	0.3				

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 C05: Malignant neoplasm of palate

Age distribution and age-specific incidence 2007 - 2020 (Males: 229, Females: 106)

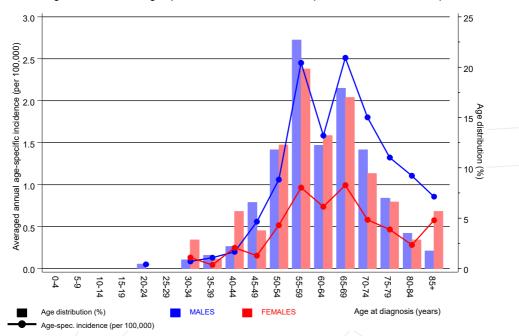


Figure 6. Age distribution (males: mean=62.1 yrs, median=61.8 yrs; females: mean=62.4 yrs, median=62.4 yrs) and age-specific incidence.



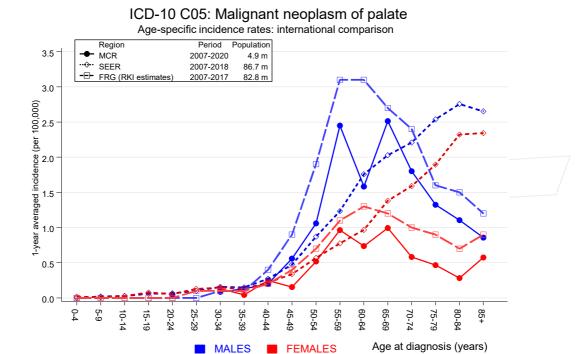


Figure 6a. Age-specific incidence in MCR registry areas compared to Germany (FRG, RKI estimates) and SEER (Surveillance, Epidemiology, and End Results, USA).



Reference:

Estimated age-specific patient population of Germany, latest update: 16 March 2021. German Centre for Cancer Registry Data, Robert Koch Institute (RKI), based on data of the population based cancer registries. http://www.krebsdaten.de. Last access: 08/17/2021 Surveillance, Epidemiology, and End Results (SEER) Program SEER*Stat Database: Incidence - SEER 21 Regs Research Data, released April 2021, based on the November 2020 submission. http://www.seer.cancer.gov.

Table 7a

Standardized incidence ratio (SIR, with 95% confidence limits), excess absolute risk (EAR) and DCO rate of further malignancies for period 1998-2020

MALES

	Observed E	xpected		CI	CI			DCO
Diagnosis	/ n /	n	SIR	95%	95%		EAR	용
	//							
C03-C06 Oral cavity	12	0.2	65.6		114.7		89.0	
C09-C10 Oropharynx	9	0.2	37.7	17.2		#	66.0	
C11 Nasopharynx	/	0.0	62.4		347.6		7.4	
C12-C13 Hypopharynx	7	0.1	55.4		114.1		51.8	
C15 Oesophagus	15	0.4	40.9	22.9		#	110.2	6.7
C16 Stomach	4	0.5	7.7	2.1		#	26.2	50.0
C18 Colon	4	1.3	3.1	0.9	8.0		20.5	
C19-C20 Rectum	2	0.9	2.3	0.3	8.5		8.6	
C21 Anus/canal	1	0.0	23.3	0.6	130.0		7.2	
C22 Liver	2	0.5	4.4	0.5	15.9		11.6	
C23-C24 Bile	1	0.1	7.0	0.2	38.9		6.5	100.0
C25 Pancreas	1	0.6	1.8	0.0	10.0		3.3	
C30-C31 Sinuses	1	0.0	31.7	0.8	176.6		7.3	
C32 Larynx	6	0.2	32.2	11.8	70.1	#	43.8	
C33-C34 Lung	25	1.8	13.6	8.8	20.0	#	174.4	4.0
C46,C49 Soft tissue	1	0.1	11.6	0.3	64.8		6.9	
C50 Breast	1	0.0	24.3	0.6	135.6		7.2	
C61 Prostate	5	4.3	1.2	0.4	2.7		5.6	
C64 Kidney	1	0.6	1.8	0.0	9.8		3.3	
C76-C79 CUP	2	0.2	8.4	1.0	30.4	#	13.3	
C82-C85 NHL	4	0.6	6.6	1.8	17.0	#	25.6	50.0
C91-C96 Leukaemia	1	0.2	5.0	0.1	28.1		6.0	
Not observed	0	2.5	0.0	0.0	1.5		-18.7	
All further malignancies	106	15.3	6.9	5.7	8.4	#	682.8	6.6
Patients		327	,					
Median age at next malignar	ncy (years)	63.4						
Person-years		1328						
Mean observation time (year	cs)	4.1						
Median observation time (ye	ears)	2.5	i					
·-								

The occurrence of further specified malignancy is statistically significant.

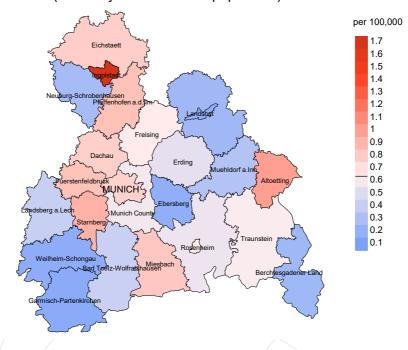
Table 7b

Standardized incidence ratio (SIR, with 95% confidence limits), excess absolute risk (EAR) and DCO rate of further malignancies for period 1998-2020 FEMALES

	Observed Ex	xpected		CI	CI		DCO
Diagnosis	/ n /	n	SIR	95%	95%	EAR	용
-							
C03-C06 Oral cavity	3 /	0.0	80.0	16.5	233.7	# 45.3	
C12-C13 Hypopharynx	/ 1/	0.0	136.5	3.5	760.7	# 15.2	
C14 ENT cancer	/ 1/	0.0	1248	31.6	6952	# 15.3	100.0
C15 Oesophagus	2	0.0	51.6	6.2	186.4	# 30.0	
C16 Stomach	2	0.2	11.4	1.4	41.1	# 27.9	
C19-C20 Rectum	1	0.2	4.6	0.1	25.6	12.0	
C22 Liver	2	0.1	30.5	3.7	110.1	# 29.6	
C25 Pancreas	1	0.2	4.2	0.1	23.7	11.7	
C30-C31 Sinuses	2	0.0	241.7	29.3	873.1	# 30.5	
C32 Larynx	1	0.0	81.8	2.1	455.9	# 15.1	
C33-C34 Lung	3	0.5	6.5	1.3	19.0	# 38.8	
C40-C41 Bone	1	0.0	167.5	4.2	933.0	# 15.2	100.0
C50 Breast	3	1.9	1.6	0.3	4.5	16.4	
C64 Kidney	1	0.1	7.8	0.2	43.5	13.3	
C67 Bladder	1	0.1	10.2	0.3	56.7	13.8	
C70-C72 CNS cancer	1	0.1	12.9	0.3	71.6	14.1	100.0
C73 Thyroid	2	0.1	16.1	2.0	58.2	# 28.7	
C76-C79 CUP	2	0.1	21.4	2.6	77.2	# 29.2	
C82-C85 NHL	1	0.2	4.7	0.1	26.4	12.1	
Not observed	0	2.0	0.0	0.0	1.9	-29.9	
All further malignancies	31	5.9	5.3	3.6	7.5	# 384.0	9.7
Patients		15	4				
Median age at next maligna	ncy (years)	65.					
Person-years		65					
Mean observation time (yea	rs)	4.					
Median observation time (y	ears)	2.	9				

The occurrence of further specified malignancy is statistically significant.

Average incidence (Germany 1987 standard population) 2007 - 2020: Males



werage incidence (Germany 1987 standard population) 2007 - 2020: Females

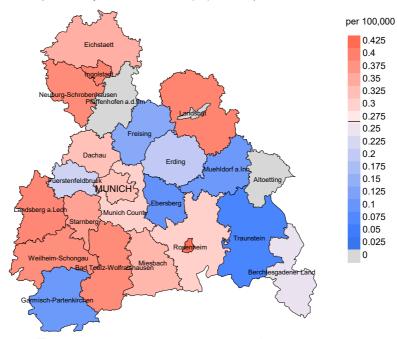
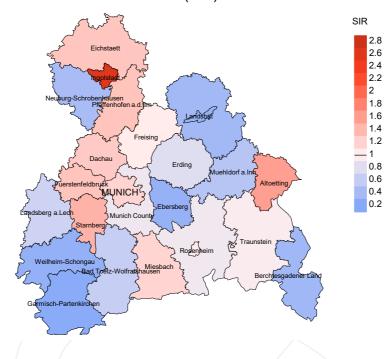


Figure 8a. Map of cancer incidence (german standard population, incl. DCO cases) by county averaged for period 2007 to 2020. According to their individual incidence rates, the counties are displayed in different red and blue hues, being the fine white color attributed to the population mean (males 0.6/100,000 WS N=229, females 0.3/100,000 WS N=106).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 67,727 female residents (averaged) in the period from 2007 to 2020 a total of 1 women were identified with newly diagnosed palate cancer. Therefore, the mean incidence rate for this cancer type in this area can be calculated at 0.1/100,000 (german standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.0 and 0.8/100,000.

Standardized incidence ratio (SIR) 2007 - 2020: Males



Standardized incidence ratio (SIR) 2007 - 2020: Females

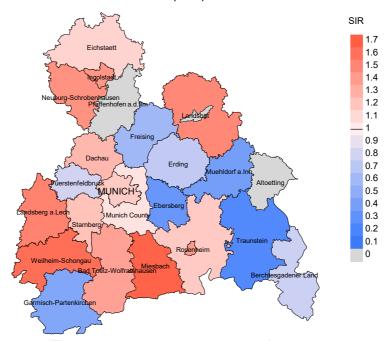


Figure 8b. Map of standardized incidence ratio (SIR, incl. DCO cases) by county averaged for period 2007 to 2020. According to their individual SIR values, the counties are displayed in different red and blue hues, being the fine white color attributed to the population overall of 1.0 (males N=229, females N=106).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 67,153 female residents (averaged) in the period from 2007 to 2020 a total of 1 women were identified with newly diagnosed palate cancer. Therefore, the mean standardized incidence ratio (SIR) for this cancer type in this area can be calculated at 0.34. Though, the value of this parameter may vary with an underlying probability of 99% between 0.00 and 2.52, and is therefore not statistically striking.

MORTALITY

Table 9a

Annual cohorts: Incident cancers, follow-up status, proportion of DCO, deaths among the annual cohorts and proportion of available death certificates (with respect to registry area expansion from 2.65 to 4.10 m as of 2002, and from 4.10 to 4.94 m as of 2007, respectively)

						Prop.
		Prop.				deaths
	Incident	actively	Prop.		Prop.	with death
Year of	cases	followed	DCO	Deaths	deaths	certific.
diagnosis	n	90	90	n	%	%
1998	14	100.0		11	78.6	81.8
1999	14	100.0		11	78.6	90.9
2000	12	100.0		11	91.7	90.9
2001	14	100.0	7.1	12	85.7	100.0
2002	1/7	100.0		15/	88.2	86.7
2003	27	100.0		22	81.5	90.9
2004	30	100.0	3.3	23	76.7	95.7
2005	18	100.0	5.6	14	77.8	100.0
2006	7	100.0		4	57.1	75.0
2007	26	92.3		19	73.1	89.5
2008	33	93.9		21	63.6	100.0
2009	32	100.0		22	68.8	81.8
2010	42	95.2	2.4	23	54.8	100.0
2011	30	100.0	3.3	18	60.0	94.4
2012	31	96.8	3.2	16	51.6	100.0
2013	34	100.0		16	47.1	93.8
2014	29	96.6	3.4	12	41.4	91.7
2015	28	96.4		11	39.3	81.8
2016	16	100.0		6	37.5	66.7
2017	15	100.0	6.7	9	60.0	66.7
2018	14	100.0		4	28.6	75.0
2019	3	100.0				
2020	2	100.0				
1998-2020	488	98.2	1.6	300	61.5	91.0

Table 9b

Annual cohorts of incident cancers and deaths, proportion of death certificates and cases deceased within the same year of being diagnosed with cancer (incl. DCO)

(with respect to registry area expansion from 2.65 to 4.10 m as of 2002, and from 4.10 to 4.94 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	%	n	%
1998	14	9	100.0	/ 1	7.1
1999	14	5	100.0		
2000	12	7	85.7		
2001	14	12	91.7	1	7.1
2002	17	14	100.0	2	11.8
2003	27	19	100.0	5	18.5
2004	30	20	85.0	5	16.7
2005	18	17	94.1	4	22.2
2006	/ 7	22	95.5	_ 2	28.6
2007	26	13	100.0	1	3.8
2008	33	7	100.0	3	9.1
2009	32	25	96.0	3	9.4
2010	42	20	100.0	4	9.5
2011	30	23	91.3	3	10.0
2012	31	13	100.0	2 3 7	6.5
2013	34	21	100.0	3	8.8
2014	29	24	100.0		24.1
2015	28	20	95.0	/1 /	3.6
2016	16	18	100.0		
2017	15	26	88.5	3	20.0
2018	14	15	66.7	1/	7.1
2019	3	16	43.8		
2020	2	12	83.3		
1998-2020	488	378	92.1	51	10.5

Table 9c

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

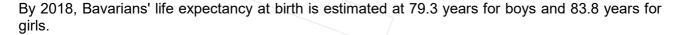
(with respect to registry area expansion from 2.65 to 4.10 m as of 2002, and from 4.10 to 4.94 m as of 2007, respectively)

				Prop.
				cancer
		Prop.	Prop.	recorded
		cancer-	non-cancer-	on death
Year of	Deaths	related	related	certificate
death	n	%	96	%
1998	9	77.8	22.2	88.9
1999	5	60.0	40.0	80.0
2000	7	71.4	28.6	83.3
2001	12	66.7	33.3	72.7
2002	14	78.6	21.4	100.0
2003	19	73.7	26.3	89.5
2004	20	60.0	40.0	88.2
2005	/ 17	94.1	5.9	100.0
2006	22	68.2	31.8	85.7
2007	13	84.6	15.4	92.3
2008	7	85.7	14.3	100.0
2009	25	76.0	24.0	87.5
2010	20	75.0	25.0	75.0
2011	23	73.9	26.1	90.5
2012	13	46.2	53.8	53.8
2013	21	76.2	23.8	90.5
2014	24	66.7	33.3	79.2
2015	20	50.0	50.0	73.7
2016	18	61.1	38.9	66.7
2017	26	76.9	23.1	87.0
2018	15	60.0	40.0	70.0
2019	16	43.8	56.3	100.0
2020	12	41.7	58.3	90.0
1998-2020	378	68.5	31.5	84.2

					7 cc o+
		7	7	7	Age at
		Age at death	Age at	Age at death	death
		/	death	\\ -	(according
V	Daatha	(all	(cancer-	(non-cancer-	to death
Year of	Deaths	causes)	related)	related)	certificate)
death	n	Years	Years	Years	Years
1998	6	55.0	50.8	59.6	51.5
1999	5	59.4	49.5	77.3	54.5
2000	5	75.3	76.1	61.6	76.1
2001	9	63.8	65.9	55.8	65.9
2002	9	62.3	65.4	61.6	62.3
2003	10	62.3	63.4	56.1	63.4
2004	15	63.8	63.8	60.3	64.5
2005	8	67.0	66.6	74.6	66.6
2006	15	63.1	63.5	61.4	63.5
2007	11/	66.5	64.4	86.3	65.4
2008	4	55.8	55.8		55.8
2009	22	66.9	67.8	66.0	66.9
2010	16	64.5	60.3	77.5	60.3
2011	14	68.2	66.8	70.5	65.4
2012	9	73.5	69.8	74.5	70.6
2013	17	64.7	62.9	64.8	62.9
2014	22	66.8	67.9	63.9	66.2
2015	15	66.0	68.7	66.0	65.8
2016	11	67.1	63.8	76.8	63.8
2017	21	69.8	70.1	69.6	69.4
2018	11	71.3	71.3	71.4	72.9
2019	12	71.5	69.2	73.9	69.2
2020	9	62.4	62.4	60.5	62.4
1998-2020	276	65.5	65.3	66.2	64.9

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.

					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	3	60.6	60.6		60.6
1999					
2000	2	54.0	55.6	52.4	55.6
2001	3	75.5	71.9	85.4	71.9
2002	5	81.1	82.6	53.9	81.1
2003	9	60.2	54.6	82.4	60.2
2004	5	65.1	62.5	71.4	62.5
2005	9	63.7	63.7		63.7
2006	7	78.6	75.3	78.6	82.1
2007	2	66.2	66.2		66.2
2008	3	63.1	58.5	72.3	63.1
2009	3	87.0	76.4	87.0	87.0
2010	4	83.9	76.9	83.9	76.9
2011	9	60.6	60.6	73.9	60.5
2012	4	80.0	73.1	80.5	73.1
2013	4	74.3	68.2	83.9	74.3
2014	2	77.4	77.4		77.4
2015	5	60.8	68.5	60.8	68.5
2016	7	75.2	70.9	81.6	75.2
2017	5	70.8	69.8	102.7	69.8
2018	4	74.4	80.4	67.1	80.4
2019	4	77.5	98.2	73.6	98.2
2020	3	64.9		64.9	70.2
1998-2020	102	70.5	68.2	76.0	68.4



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 11a $\begin{tabular}{ll} Mortality measures (cancer-related death) and mortality-incidence-index \\ by year of death \\ MALES \end{tabular}$

Year of	Deaths	Mort.	MI-Index	Mort.	MI-Index	Mort. M	II-Index	Mort. I	MI-Index
death	n	raw	raw	WS	WS	ES	ES	BRD-S	BRD-S
1998	4	0.4	0.57	0.3	0.57	0.3	0.61	0.3	0.56
1999	3	0.3	0.38	0.2	0.44	0.3	0.44	0.4	0.61
2000	4	0.4	0,44	0.2	0.32	0.3	0.43	0.5	0.65
2001	6	0.5	0.67	0.4	0.70	0.5	0.68	0.5	0.66
2002	8	0.4	0.57	0.3	0.53	0.4	0.55	0.4	0.59
2003	8	0.4	0.42	0.2	0.37	0.3	0.39	0.4	0.43
2004	9	0.5	0.47	0.3	0.43	0.4	0.44	0.4	0.42
2005	7	0.4	0.70	0.2	0.62	0.3	0.63	0.3	0.63
2006	11	0.6	2.75	0.4	2.70	0.5	2.75	0.6	2.90
2007	9	0.4	0.45	0.2	0.45	0.3	0.43	0.4	0.44
2008	4	0.2	0.15	0.1	0.17	0.2	0.16	0.2	0.16
2009	17	0.8	0.85	0.4	0.81	0.6	0.84	0.7	0.88
2010	13	0.6	0.45	0.3	0.42	0.5	0.44	0.5	0.45
2011	10	0.4	0.45	0.2	0.41	0.4	0.42	0.4	0.48
2012	5	0.2	0.23	0.1	0.21	0.2	0.22	0.2	0.21
2013	13	0.6	0.68	0.3	0.67	0.4	0.65	0.5	0.68
2014	14	0.6	0.64	0.3	0.60	0.5	0.63	0.6	0.66
2015	8	0.3	0.36	0.2	0.34	0.3	0.34	0.3	0.37
2016	7	0.3	0.78	0.2	0.93	0.2	0.84	0.3	0.83
2017	16	0.7	2.29	0.4	1.92	0.5	2.06	0.6	2.20
2018	7	0.3	0.70	0.2	0.73	0.2	0.71	0.3	0.72
2019	6	0.2	6.00	0.1	4.50	0.2	5.04	0.2	5.58
2020	5	0.2		0.1		0.2		0.2	
1998-2020	194	0.4	0.59	0.2	0.55	0.3	0.56	0.4	0.59

Table 11b $\label{lem:mortality} \mbox{Mortality measures (cancer-related death) and mortality-incidence-index } \mbox{by year of death} \mbox{FEMALES}$

			/						
			MI-Index						
death	n	raw	raw	WS	WS	ES	ES	BRD-S	BRD-S
1998	3	0.3	0.43	0.1	0.31	0.2	0.35	0.2	0.40
1999									
2000	1	0.1	0.33	0.0	0.58	0.1	0.51	0.1	0.39
2001	2	0.2	0.40	0.1	0.32	0.1	0.33	0.2	0.38
2002	3	0.2	1.00	0.0	0.32	0.1	0.46	0.1	0.76
2003	6	0.3	0.75	0.2	0.80	0.3	0.78	0.3	0.76
2004	3	0.2	0.27	0.1	0.23	0.1	0.25	0.1	0.27
2005	9	0.5	1.13	0.2	0.98	0.4	1.06	0.4	1.09
2006	4	0.2	1.33	0.1	0.53	0.1	0.74	0.2	0.92
2007	2	0.1	0.33	0.0	0.26	0.1	0.32	0.1	0.37
2008	2	0.1	0.29	0.1	0.33	0.1	0.31	0.1	0.32
2009	2	0.1	0.17	0.0	0.13	0.1	0.12	0.1	0.13
2010	2	0.1	0.15	0.0	0.11	0.1	0.11	0.1	0.12
2011	7	0.3	0.88	0.2	0.99	0.2	0.88	0.2	0.81
2012	1	0.0	0.11	0.0	0.06	0.0	0.07	0.0	0.08
2013	3	0.1	0.20	0.1	0.17	0.1	0.19	0.1	0.21
2014	2	0.1	0.29	0.0	0.20	0.0	0.21	0.1	0.22
2015	2	0.1	0.33	0.0	0.21	0.1	0.24	0.1	0.33
2016	4	0.2	0.57	0.1	0.33	0.1	0.39	0.1	0.46
2017	4	0.2	0.50	0.1	0.53	0.1	0.55	0.1	0.54
2018	2	0.1	0.50	0.0	0.27	0.0	0.33	0.0	0.36
2019	1	0.0	0.50	0.0	0.13	0.0	0.19	0.0	0.23
2020	_	3.0	1.55					/ 3.0	0
2020									
1998-2020	65	0.1	0.41	0.1	0.33	0.1	0.35	0.1	0.37

Table 12

Age distribution of age at death (cancer-related) for period 2007-2020 (incl. multiple malignancies)

Age at death Years	Cases n	୍ଚ	Cum.%	Males	olo	Cum.%	Females n	olo	Cum.%
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39									
40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85+	3 3 11 22 35 27 31 20 5	1.8 1.8 6.5 13.1 20.8 16.1 18.5 11.9 3.0 6.5	1.8 3.6 10.1 23.2 44.0 60.1 78.6 90.5 93.5 100.0	1 3 10 18 29 22 27 18 3	0.7 2.2 7.5 13.4 21.6 16.4 20.1 13.4 2.2 2.2	0.7 3.0 10.4 23.9 45.5 61.9 82.1 95.5 97.8 100.0	2 1 4 6 5 4 2 2 8	5.9 2.9 11.8 17.6 14.7 11.8 5.9 5.9 23.5	5.9 5.9 8.8 20.6 38.2 52.9 64.7 70.6 76.5 100.0
All ages	168	100.0		134	100.0		34	100.0	

Table 13

Age-specific mortality (cancer-related) and proportion of all cancers for period 2007-2020

(incl. multiple malignancies)

			Males		Females		Males	Females
Age at			Age-		Age-		Prop.all	Prop.all
death	Males	Females	/= /		spec.		cancers	cancers
Years	n	n		MI-index		MI-index	%	%
0- 4								
5- 9								
10-14								
15-19								
20-24								
25-29								
30-34								
35-39								
40-44	1	2	0.0	0.20	0.1	0.33	0.2	0.2
45-49	3		0.1	0.20			0.2	
50-54	10	1	0.4	0.37	0.0	0.08	0.4	0.0
55-59	18	4	0.8	0.35	0.2	0.19	0.4	0.1
60-64	29	6	1.6	1.04	0.3	0.43	0.5	0.1
65-69	22	5	1.3	0.54	0.3	0.28	0.2	0.1
70-74	27	4	1.8	1.00	0.2	0.40	0.2	0.0
75-79	18	2	1.5	1.13	0.1	0.29	0.1	0.0
80-84	3	2	0.4	0.38	0.2	0.67	0.0	0.0
85+	3	8	0.6	0.75	0.8	1.33	0.0	0.1
All ages	134	34					0.2	0.1
-								
Mortality								
Raw			0.4	0.59	0.1	0.32		
WS			0.2	0.55	0.0	0.26		
ES			0.3	0.56	0.1	0.27		
BRD-S			0.4	0.59	0.1	0.28		
PYLL-70								
per 100,000			2.7		0.6			
ES			2.3		0.5			
AYLL-70			9.2		10.0			

					Syn-	Syn-		
					chron	chron		
	Total	Total	Pre	Pre	±30d	±30d	Post	Post
Diagnosis	n	%↓	n	← %	n	← %	n	← %
	/		_					
C03-C06 Oral cavity	16	9.9	6	37.5	3	18.8	7	43.8
C09-C10 Oropharynx	12	7.4	5	41.7			7	58.3
C11 Nasopharynx	2	1.2	1	50.0			1	50.0
C12-C13 Hypopharynx	9	5.6	2	22.2	3	33.3	4	44.4
C15 Oesophagus	22	13.6	4	18.2	5	22.7	13	59.1
C16 Stomach	4	2.5					4	100.0
C17 Small intestine	2	1.2	1	50.0			1	50.0
C18 Colon	8	4.9	4	50.0			4	50.0
C19-C20 Rectum	7	4.3	2	28.6			5	71.4
C21 Anus/canal	1	0.6	1	100.0				
C22 Liver	4	2.5					4	100.0
C23-C24 Bile	1	0.6					1	100.0
C25 Pancreas	1	0.6					$\sqrt{1}$	100.0
C30-C31 Sinuses	1	0.6					1	100.0
C32 Larynx	8	4.9	3	37.5	4	50.0	1	12.5
C33-C34 Lung	30	18.5	7	23.3	4	13.3	19	63.3
C38,C45 Mesothelioma	1	0.6	1	100.0				
C44 Skin others	12	7.4	5	41.7	4	33.3	3	25.0
C50 Breast	1	0.6	1	100.0				
C61 Prostate	6	3.7	4	66.7			2	33.3
C64 Kidney	1	0.6	1	100.0				
C67 Bladder	2	1.2	2	100.0				
C73 Thyroid	1	0.6	1	100.0				
C76-C79 CUP	3	1.9	1	33.3	1	33.3	1	33.3
C82-C85 NHL	5	3.1	2	40.0	1	20.0	2	40.0
C91-C96 Leukaemia	2	1.2	1	50.0	1	50.0		
All further malignancies	162	100.0	55	34.0	26	16.0	81	50.0

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 further malignancy.



					Syn-	Syn-		
					chron	chron		
	Total	Total	Pre	Pre	±30d	±30d	Post	Post
D:	/-	7		_				
Diagnosis	n	용↓	n	-%	n	← %	n	← %
C03-C06 Oral cavity	/ 3	10.0			1	33.3	2	66.7
C12-C13 Hypopharynx	/ 1	3.3			1	100.0		
C14 ENT cancer	/ 2 /	6.7			1	50.0	1	50.0
C15 Oesophagus	5	16.7	1	20.0	1	20.0	3	60.0
C16 Stomach	_ 1	3.3					1	100.0
							2	
							_	
•			_ 1	F0 0			1	
							Τ	
C30-C31 Sinuses	3	10.0	1	33.3			2	66.7
C33-C34 Lung	2	6.7					2	100.0
C40-C41 Bone	1	3.3					1	100.0
C50 Breast	3	10.0	2	66.7	1	33.3		
C56 Ovarv	1	3.3					/1	100.0
4 /							1	
						100 0	1	100.0
C82-C85 NHL	Т	3.3			$/_{T}$	100.0		
All further malignancies	30	100.0	5	16.7	6	20.0	19	63.3
C18 Colon C21 Anus/canal C22 Liver C30-C31 Sinuses C33-C34 Lung C40-C41 Bone C50 Breast C56 Ovary C70-C72 CNS cancer C76-C79 CUP C82-C85 NHL	2 1 2 3 2 1 3 1 1 1	6.7 3.3 6.7 10.0 6.7 3.3 10.0 3.3 3.3 3.3	_		1 1 6	33.3 100.0 20.0	1 1 1	100.0 100.0 50.0 66.7 100.0 100.0

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 further malignancy.

Table 15 $\label{eq:Age-specific} \mbox{Age-specific mortality (cancer-related) and proportion of all cancers for period 2007-2020 \\$

(First primaries only *)

Age at death death death Males Females spec. Females spec. Age spec. Age spec. Males Females spec. Remales spec. Age spec. Spec. <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
death Years Males Females n spec. mortal. MI-index mortal. MI-index cancers cancers 0- 4 5- 9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 1 2 0.1 0.14 0.2 0.3 45-49 2 0.1 0.14 0.2 0.3 1 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 60-66 16 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 All ages 87 26 Mortality Raw WS BRD-S 0.3 0.52 0.1 0.30 0.2 0.1 0.25 0.2 0.1 0.25 0.2 0.50 0.1 0.25 0.25 0.1 0.27 0.25 0.2 0.50 0.1 0.25 0.25 0.1 0.27 0.25 0.2 0.50 0.1 0.25 0.25 0.1 0.27				Males		Females		Males	Females
Years n n mortal. MI-index mortal. MI-index % 0- 4 5- 9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 1 2 0.0 0.19 0.1 0.31 0.2 0.3 45-49 2 0.1 0.14 0.2 50-54 6 1 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.3 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.1 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 All ages 87 26 PYLL-70 per 100,000 1.9 0.6	Age at			Age-		Age-		Prop.all	Prop.all
Years n n mortal. MI-index mortal. MI-index % 0- 4 5- 9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 1 2 0.0 0.19 0.1 0.31 0.2 0.3 45-49 2 0.1 0.14 0.2 50-54 6 1 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 Mortality Raw WS 0.2 0.49 0.0 0.24 ES BRD-S PYLL-70 per 100,000 1.9 0.6	death	Males Fe	emales	spec.		spec.		cancers	cancers
5- 9 10-14 15-19 20-24 25-29 30-34 35-39 40-44	Years	n	n		MI-index		MI-index	%	%
5- 9 10-14 15-19 20-24 25-29 30-34 35-39 40-44									
10-14 15-19 20-24 25-29 30-34 35-39 40-44 1 2 0.0 0.19 0.1 0.31 0.2 0.3 45-49 2 0.1 0.14 0.2 50-54 6 1 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.23 0.2 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 Mortality Raw WS 0.2 0.49 0.0 0.24 ES BRD-S 0.2 0.50 0.1 0.25 BRD-S PYLL-70 per 100,000 1.9 0.6	0- 4								
15-19 20-24 25-29 30-34 35-39 40-44 1	5- 9								
20-24 25-29 30-34 35-39 40-44 1 2 0.0 0.19 0.1 0.31 0.2 0.3 45-49 2 0.1 0.14 0.2 50-54 6 1 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 All ages 87 26 0.2 0.50 0.1 0.25 BRD-S 0.2 0.50 0.1 0.25 BRD-S 0.6	10-14								
25-29 30-34 35-39 40-44 1 2 0.0 0.19 0.1 0.31 0.2 0.3 45-49 2 0.1 0.14 0.2 50-54 6 1 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 Mortality Raw WS 0.3 0.52 0.1 0.30 WS ES BRD-S 0.2 0.50 0.1 0.25 BRD-S PYLL-70 per 100,000 1.9 0.10 0.19 0.1 0.31 0.2 0.6	15-19								
30-34 35-39 40-44 1 2 0.0 0.19 0.1 0.31 0.2 0.3 45-49 2 0.1 0.14 0.2 50-54 6 1 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.2 0.3 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 Mortality Raw WS 0.2 0.49 0.0 0.2 0.1 PYLL-70 per 100,000 1.9 0.6	20-24								
35-39 40-44	25-29								
40-44 1 2 0.0 0.19 0.1 0.31 0.2 0.3 45-49 2 0.1 0.14 0.2 0.3 0.0 0.09 0.3 0.0 50-54 6 1 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 Mortality ES 0.2 <td< td=""><td>30-34</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	30-34								
45-49 2 0.1 0.14 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 Mortality Raw 0.2 0.49 0.0 0.24 0.2 0.1 0.25 BRD-S 0.2 0.50 0.1 0.25 0.1 0.27 PYLL-70 0.0 0.0 0.0 0.0 0.0<	35-39								
45-49 2 0.1 0.14 0.2 0.31 0.0 0.09 0.3 0.0 55-59 16 3 0.8 0.42 0.1 0.17 0.4 0.1 60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 Mortality Raw 0.2 0.49 0.0 0.24 0.2 0.1 0.25 BRD-S 0.2 0.50 0.1 0.25 0.1 0.27 PYLL-70 0.0 0.0 0.0 0.0 0.0<	40-44	1	2	0.0	0.19	0.1	0.31	0.2	0.3
55-59	45-49	2		0.1	0.14			0.2	
55-59	50-54	6	1	0.2	0.31	0.0	0.09	0.3	0.0
60-64 18 5 1.0 0.83 0.3 0.42 0.3 0.1 65-69 16 4 1.0 0.57 0.2 0.31 0.2 0.1 70-74 16 2 1.1 0.93 0.1 0.23 0.2 0.0 75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 0.2 0.1 Mortality Raw WS 0.2 0.49 0.0 0.24 ES BRD-S 0.2 0.50 0.1 0.25 0.1 0.25 0.2 0.52 0.1 0.27 PYLL-70 per 100,000 1.9 0.6	55-59	16		0.8	0.42	0.1		0.4	0.1
65-69	60-64			1.0		0.3		0.3	0.1
70-74	65-69		4	1.0	0.57	0.2		0.2	0.1
75-79 9 2 0.7 0.82 0.1 0.61 0.1 0.0 80-84 2 1 0.3 0.60 0.1 0.30 0.0 0.0 85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.50 0.1 0.25 BRD-S 0.2 0.52 0.1 0.27								0.2	
80-84				0.7				0.1	
85+ 1 6 0.2 0.46 0.6 1.39 0.0 0.1 All ages 87 26 0.2 0.1 0.2 0.1 Mortality Raw WS 0.2 0.49 0.0 0.24 ES 0.2 0.50 0.1 0.25 BRD-S 0.2 0.52 0.1 0.27 PYLL-70 per 100,000 1.9 0.6						0.1			
All ages 87 26 0.2 0.1 Mortality Raw WS 0.2 0.49 0.0 0.24 ES 0.2 0.50 0.1 0.25 BRD-S PYLL-70 per 100,000 1.9 0.6									
Mortality Raw WS 0.3 0.52 0.1 0.30 0.2 0.49 0.0 0.24 ES 0.2 0.50 0.1 0.25 BRD-S 0.2 0.52 0.1 0.27 PYLL-70 per 100,000 1.9 0.6									
Mortality Raw WS 0.3 0.52 0.1 0.30 0.2 0.49 0.0 0.24 ES 0.2 0.50 0.1 0.25 BRD-S 0.2 0.52 0.1 0.27 PYLL-70 per 100,000 1.9 0.6	All ages	87	26					0.2	0.1
Raw 0.3 0.52 0.1 0.30 WS 0.2 0.49 0.0 0.24 ES 0.2 0.50 0.1 0.25 BRD-S 0.2 0.52 0.1 0.27	,								
Raw 0.3 0.52 0.1 0.30 WS 0.2 0.49 0.0 0.24 ES 0.2 0.50 0.1 0.25 BRD-S 0.2 0.52 0.1 0.27	Mortality								
WS	=			0.3	0.52	0.1	0.30		
ES									
BRD-S 0.2 0.52 0.1 0.27 PYLL-70 per 100,000 1.9 0.6	ES								
PYLL-70 per 100,000 1.9 0.6									
per 100,000 1.9 0.6									
per 100,000 1.9 0.6	PYLL-70								
				1.9		0.6			
	_								
AYLL-70 9.4 10.5									
	•					23.0			

^{*} See corresponding tables with multiple malignancies.

Table 16

Age-specific mortality (cancer-related) and proportion of all cancers for period 2007-2020

(Single primaries only *)

			Males		Females		Males	Females
Age at			Age-		Age-		Prop.all	Prop.all
death	Males 1	Females	spec.		spec.		cancers	cancers
Years	n	n	mortal.	MI-index	mortal.	MI-index	%	%
0- 4								
5- 9								
10-14								
15-19								
20-24								
25-29								
30-34								
35-39								
40-44		2			0.1	0.29		0.3
45-49	2		0.1	0.19			0.2	
50-54	3	1	0.1	0.19	0.0	0.09	0.1	0.0
55-59	11 /	2	0.5	0.30	0.1	0.14	0.3	0.1
60-64	9	4	0.5	0.48	0.2	0.38	0.2	0.1
65-69	12	4	0.7	0.47	0.2	0.34	0.2	0.1
70-74	9	2	0.6	0.78	0.1	0.22	0.1	0.0
75-79	4	1	0.3	0.41	0.1	0.42	0.0	0.0
80-84	1	\1	0.1	0.27	0.1	0.28	0.0	0.0
85+	1	6	0.2	0.41	0.6	1.28	0.0	0.1
	_ \	\	0.2	0.11	0.0	1.20	0.0	0.1
All ages	52	23					0.1	0.0
TITT ages	02	23					/ 0.1	0.0
Mortality								
Raw /			0.2	0.36	0.1	0.28		
WS			0.1	0.34	0.0	0.22		
ES			0.1	0.35	0.0	0.23		
BRD-S			0.1	0.36	0.1	0.24		
DIAD 5			0.1	0.30	0.1	0.24		
PYLL-70								
per 100,000			1.2		0.5			
ES ES			1.0		0.3			
AYLL-70			9.0		10.6			
עוחח_ ו ۸			9.0		10.6			

^{*} See corresponding tables with multiple malignancies.

ICD-10 C05: Malignant neoplasm of palate

Age distribution and age-specific mortality 2007 - 2020 (Males: 134, Females: 34)

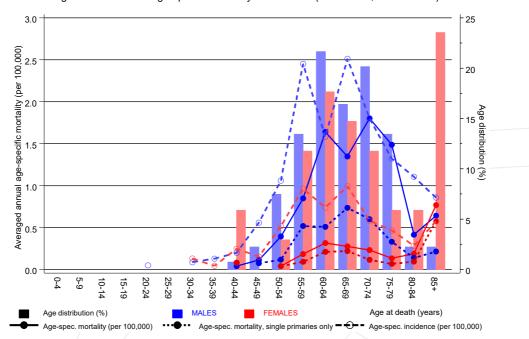
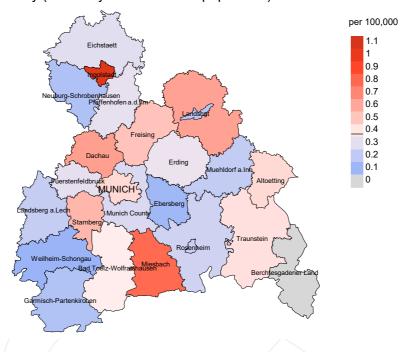


Figure 17. Distribution of age at death (bars; males: mean=61.2 yrs, median=60.5 yrs; females: mean=65.0 yrs, median=64.4 yrs) and age-specific mortality (all patients: solid line, patients with single primaries: dotted line). The age-specific incidence is additionally plotted for comparison (dashed line).

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



werage mortality (Germany 1987 standard population) 2007 - 2020: Males



Average mortality (Germany 1987 standard population) 2007 - 2020: Females

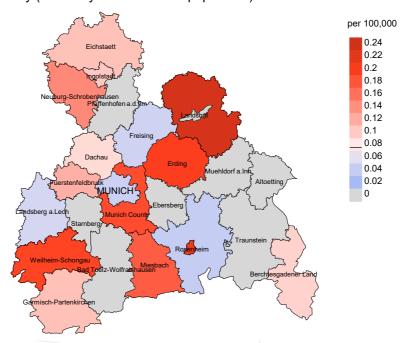
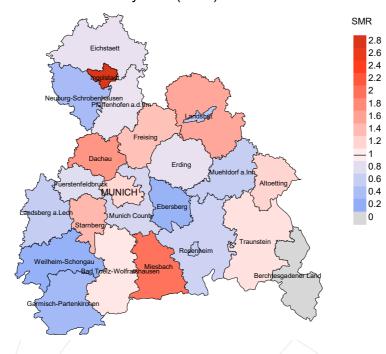


Figure 18a. Map of cancer mortality (german standard population) by county averaged for period 2007 to 2020. According to their individual mortality rates, the counties are displayed in different red and blue hues, being the fine white color attributed to the population mean (males 0.4/100,000 WS N=134, females 0.1/100,000 WS N=34).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 67,727 female residents (averaged) in the period from 2007 to 2020 a total of 0 women died from palate cancer. Therefore, the mean mortality rate for this cancer type in this area can be calculated at 0.0/100,000 (german standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.0 and 0.0/100,000.

Standardized mortality ratio (SMR) 2007 - 2020: Males



Standardized mortality ratio (SMR) 2007 - 2020: Females

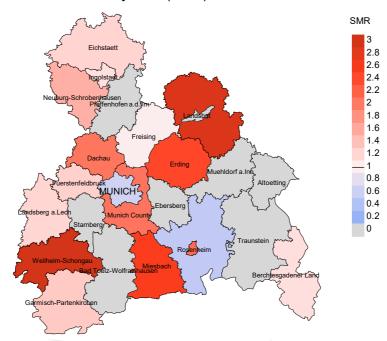


Figure 18b. Map of standardized mortality ratio (SMR, incl. DCO cases) by county averaged for period 2007 to 2020. According to their individual SMR values, the counties are displayed in different red and blue hues, being the fine white color attributed to the population overall of 1.0 (males N=134, females N=34).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 67,153 female residents (averaged) in the period from 2007 to 2020 a total of 0 women died from palate cancer. 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 5.78, 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 ratio of mortality and incidence (mortality-to-incidence ratio, **MIR**, **MI-Index**) is a statistical index 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 MIR. 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

MCR Munich Cancer Registry (Tumorregister München)

GEKID Association of Population-based Cancer Registries in Germany

(Gesellschaft der epidemiologischen Krebsregister in Deutschland e.V.)

SEER Surveillance, Epidemiology, and End Results (USA)

DCO Death certificate only

BRD-S German (FRG) standard population ES European standard population (old)

WS World standard population

SIR Standardized incidence ratio

CI Confidence interval EAR Excess absolute risk

= excess cancer cases (O - E) per 10,000 person-years

PYLL-70 Potential years of life lost prior to age 70 given a person dies before that age AYLL-70 Average years of life lost prior to age 70 given a person dies before that age

SMR Standardized mortality ratio

MI-index Ratio of mortality to incidence, MIR

FRG Federal Republic of Germany

Recommended Citation

Munich Cancer Registry. ICD-10 C05: Palate cancer - Incidence and Mortality [Internet]. 2021 [updated 2021 Dec 20; cited 2022 Feb 1]. Available from: https://www.tumorregister-muenchen.de/en/facts/base/bC05__E-ICD-10-C05-Palate-cancer-incidence-and-mortality.pdf

Copyright

The content of the public web site provided by the Munich Cancer Registry is available worldwide and free of charge. All documents are free to download, utilize, copy, print-out and distribute, providing that the MCR is referenced.

Disclaimer

The Munich Cancer Registry reserves the right to not be responsible for the topicality, correctness, completeness or quality of the information provided. Liability claims regarding damage caused by the use of any information provided, including any kind of information which is incomplete or incorrect, will therefore be rejected.