Munich Cancer Registry



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ICD-10 C02: Tongue excl. base of tongue

Incidence and Mortality

| Year of diagnosis | 1998-2014 |
|-------------------|------------|
| Patients | 1,117 |
| Diseases | 1,121 |
| 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/bC02__E-ICD-10-C02-Tongue-excl.-base-of-tongue-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 |
|--|---|
| C02 C02.0 C02.1 C02.2 C02.3 C02.4 C02.8 C02.9 | Malignant neoplasm of other and unspecified parts of tongue Dorsal surface of tongue Border of tongue Ventral surface of tongue Anterior two-thirds of tongue, part unspecified Lingual tonsil Overlapping lesion of tongue Tongue, unspecified |
| 002.0 | Torigue, unopeomed |
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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 | - % | 왕 | % |
| | | | | | | |
| 1998 | 49 | 2 | 4.1 | 34.7 | 81.6 | 98.0 |
| 1999 | 43 | | | 41.9 | 86.0 | 100.0 |
| 2000 | 44 | 2 | 4.5 | 29.5 | 77.3 | 100.0 |
| 2001 | 53 | | | 24.5 | 83.0 | 100.0 |
| 2002 | 73 | | | 38.4 | 68.5 | 97.3 # |
| 2003 | 64 | 2 | 3.1 | 32.8 | 70.3 | 98.4 |
| 2004 | 64 | | | 23.4 | 73.4 | 100.0 |
| 2005 | 64 | | | 21.9 | 67.2 | 95.3 |
| 2006 | 71 | 2 | 2.8 | 23.9 | 64.8 | 91.5 |
| 2007 | 89 | 4 | 4.5 | 27.0 | 60.7 | 78.7 # |
| 2008 | 91 | | | 28.6 | 49.5 | 73.6 |
| 2009 | 82 | 1 | 1.2 | 26.8 | 43.9 | 75.6 |
| 2010 | 92 | 1 | 1.1 | 26.1 | 46.7 | 71.7 |
| 2011 | 70 | 1 | 1.4 | 25.7 | 38.6 | 78.6 |
| 2012 | 87 | 1 | 1.1 | 20.7 | 32.2 | 64.4 |
| 2013 | 65 | | | 20.0 | 38.5 | 100.0 |
| 2014 | 20 | 1 | 5.0 | 40.0 | 10.0 | 100.0 ## |
| | | | | | | |
| 1998-2014 | 1121 | 17 | 1.5 | 27.6 | 57.6 | 86.8 |
| | | | | | | |

[#] 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 | 49 | 32 | 17 | 65.3 | |
| 1999 | 43 | 24 | 19 | 55.8 | |
| 2000 | 44 | 33 | 11/ | 75.0 | |
| 2001 | 53 | 40 | 13 | 75.5 | |
| 2002 | 73 | 46 | 27 | 63.0 | |
| 2003 | 64 | 46 | 18 | 71.9 | |
| 2004 | 64 | 44 | 20 | 68.8 | |
| 2005 | 64 | 44 | 20 | 68.8 | |
| 2006 | 71 | 46 | 25 | 64.8 | |
| 2007 | 89 | 62 | 27 | 69.7 | |
| 2008 | 91 | 55 | 36 | 60.4 | |
| 2009 | 82 | 49 | 33 | 59.8 | |
| 2010 | 92 | 59 | 33 | 64.1 | |
| 2011 | 70 | 46 | 24 | 65.7 | |
| 2012 | 87 | 56 | 31 | 64.4 | |
| 2013 | 65 | 42 | 23 | 64.6 | |
| 2014 | 20 | 11 | 9 | 55.0 | |
| | | | | | |
| 1998-2014 | 1121 | 735 | 386 | 65.6 | |
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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. |
|-------|--|---|---|--|---|---|--|--|---|
| Males | Females | Inc. | Inc. | Inc. | Inc. | Inc. | Inc. | Inc. | Inc. |
| n | n | raw | raw | WS | WS | ES | ES | BRD-S | BRD-S |
| | | | | | | | | | |
| 32 | 17 | 2.9 | 1.4 | 1.9 | 0.8 | 2.6 | 1.1 | 3.0 | 1.3 |
| 24 | 19 | 2.1 | 1.6 | 1.5 | 0.9 | 2.0 | 1.3 | 2.2 | 1.5 |
| 33 | 11 / | 2.9 | 0.9 | 2.0 | 0.6 | 2.6 | 0.8 | 2.9 | 0.8 |
| 40 | 13 < | 3.5 | 1.1 | 2.2 | 0.6 | 3.0 | 0.8 | 3.4 | 1.0 |
| 46 | 27 | 2.5 | 1.4 | 1.7 | 0.8 | 2.2 | 1.1 | 2.4 | 1.2 |
| 46 | 18 | 2.5 | 0.9 | 1.7 | 0.4 | 2.3 | 0.6 | 2.4 | 0.7 |
| 44 | 20 | 2.3 | 1.0 | 1.5 | 0.5 | 2.0 | 0.7 | 2.2 | 0.9 |
| 44 | 20 | 2.3 | 1.0 | 1.5 | 0.7 | 1.9 | 0.9 | 2.1 | 0.9 |
| 46 | 25 | 2.4 | 1.2 | 1.5 | 0.7 | 2.1 | 0.9 | 2.4 | 1.1 |
| 62 | 27 | 2.8 | 1.2 | 1.7 | 0.7 | 2.4 | 0.9 | 2.6 | 1.1 |
| 55 | 36 | 2.5 | 1.6 | 1.6 | 0.9 | 2.1 | 1.2 | 2.3 | 1.4 |
| 49 | 33 | 2.2 | 1.4 | 1.4 | 0.7 | 1.9 | 1.0 | 2.1 | 1.2 |
| 59 | 33 | 2.6 | 1.4 | 1.6 | 0.8 | 2.1 | 1.1 | 2.5 | 1.2 |
| 46 | 24 | 2.0 | 1.0 | 1.3 | 0.6 | 1.7 | 0.8 | 1.9 | 0.9 |
| 56 | 31 | 2.5 | 1.3 | 1.5 | 0.7 | 2.0 | 1.0 | 2.2 | 1.2 |
| 42 | 23 | 1.8 | 1.0 | 1.1 | 0.4 | 1.5 | 0.6 | 1.7 | 0.8 |
| 11 \ | 9 | 0.5 | 0.4 | 0.3 | 0.2 | 0.4 | 0.2 | 0.4 | 0.3 |
| | | | | | | | | | |
| 735 | 386 | 2.3 | 1.2 | 1.5 | 0.6 | 2.0 | 0.9 | 2.2 | 1.0 |
| | n 32 24 33 40 46 44 46 62 55 49 59 46 56 42 11 | Males Females n n 32 17 24 19 33 11 40 13 46 27 46 18 44 20 44 20 46 25 62 27 55 36 49 33 59 33 46 24 56 31 42 23 11 9 | n n raw 32 17 2.9 24 19 2.1 33 11 2.9 40 13 3.5 46 27 2.5 46 18 2.5 44 20 2.3 44 20 2.3 46 25 2.4 62 27 2.8 55 36 2.5 49 33 2.2 59 33 2.6 46 24 2.0 56 31 2.5 42 23 1.8 11 9 0.5 | Males Females Inc. Inc. n n raw raw 32 17 2.9 1.4 24 19 2.1 1.6 33 11 2.9 0.9 40 13 3.5 1.1 46 27 2.5 1.4 46 18 2.5 0.9 44 20 2.3 1.0 44 20 2.3 1.0 46 25 2.4 1.2 62 27 2.8 1.2 55 36 2.5 1.6 49 33 2.2 1.4 46 24 2.0 1.0 56 31 2.5 1.3 42 23 1.8 1.0 11 9 0.5 0.4 | Males Females Inc. Inc. | Males Females Inc. Inc. | Males Females Inc. Inc. Inc. Inc. Inc. Inc. Inc. 32 17 2.9 1.4 1.9 0.8 2.6 24 19 2.1 1.6 1.5 0.9 2.0 33 11 2.9 0.9 2.0 0.6 2.6 40 13 3.5 1.1 2.2 0.6 3.0 46 27 2.5 1.4 1.7 0.8 2.2 46 18 2.5 0.9 1.7 0.4 2.3 44 20 2.3 1.0 1.5 0.5 2.0 44 20 2.3 1.0 1.5 0.7 1.9 46 25 2.4 1.2 1.5 0.7 2.1 62 27 2.8 1.2 1.7 0.7 2.4 55 36 2.5 1.6 1.6 0.9 2.1 49 33 2.2 1.4 1 | Males Females Inc. Inc. | Males Females Inc. Inc. |

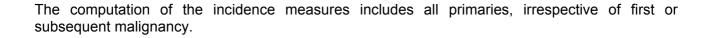


Table 3 Age distribution parameters by year of diagnosis (All patients) (incl. DCO)

| Year of | Cases | | Std. | | | | | Median | | |
|-----------|-------|------|-------|------|------|------|------|--------|------|------|
| diagnosis | n | Mean | dev. | Min. | Max. | 10% | 25% | 50% | 75% | 90% |
| 1998 | 49 | 61.4 | 11.7 | 32.0 | 91.4 | 48.0 | 52.1 | 60.4 | 67.4 | 77.8 |
| 1999 | 43 | 59.2 | 14.5 | 25.6 | 90.8 | 42.2 | 49.9 | 57.9 | 68.6 | 77.7 |
| 2000 | 44 | 56.3 | 11.7 | 33.5 | 84.8 | 41.4 | 46.3 | 55.4 | 64.9 | 71.3 |
| 2001 | 53 | 59.6 | 12.3 | 33.7 | 90.0 | 44.0 | 50.6 | 60.2 | 65.4 | 76.0 |
| 2002 | 73 | 58.8 | /12.0 | 26.4 | 89.8 | 44,9 | 51.6 | 58.8 | 65.6 | 71.9 |
| 2003 | 64 | 60.3 | 14.0 | 28.1 | 98.2 | 45.6 | 52.1 | 57.8 | 67.6 | 81.2 |
| 2004 | 64 | 60.4 | 12.4 | 29.5 | 88.4 | 43.2 | 50.2 | 61.4 | 68.1 | 75.4 |
| 2005 | 64 | 58.4 | 11.2 | 33.0 | 92.0 | 43.3 | 49.8 | 60.4 | 65.0 | 69.8 |
| 2006 | 71 | 63.1 | 12.9 | 33.8 | 96.2 | 46.7 | 55.3 | 61.4 | 71.7 | 81.2 |
| 2007 | 89 | 60.4 | 12.5 | 26.0 | 101 | 44.2 | 52.5 | 60.6 | 67.9 | 76.7 |
| 2008 | 91 | 60.9 | 12.2 | 21.8 | 87.1 | 45.1 | 52.6 | 62.2 | 69.3 | 75.2 |
| 2009 | 82 | 62.0 | 12.7 | 30.2 | 88.9 | 47.3 | 53.6 | 62.2 | 71.3 | 79.9 |
| 2010 | 92 | 61.4 | 13.9 | 24.5 | 92.8 | 45.4 | 50.8 | 60.4 | 70.5 | 82.1 |
| 2011 | 70/ | 61.3 | 14.5 | 29.2 | 92.8 | 41.8 | 53.1 | 62.2 | 69.7 | 79.7 |
| 2012 | 87 | 62.1 | 13.7 | 25.7 | 88.7 | 43.4 | 53.7 | 64.9 | 72.7 | 78.5 |
| 2013 | 65 | 63.9 | 14.8 | 28.1 | 95.5 | 44.5 | 55.5 | 64.6 | 74.1 | 81.8 |
| 2014 | 20 | 64.5 | 13.0 | 41.3 | 83.0 | 43.2 | 55.0 | 67.3 | 74.8 | 79.1 |
| | | | | | | | | | | |
| 1998-2014 | 1121 | 60.8 | 13.0 | 21.8 | 101 | 44.5 | 52.1 | 60.7 | 69.5 | 78.2 |

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 | 32 | 59.5 | 9.2 | 44.0 | 81.3 | 48.0 | 52.0 | 59.5 | 65.2 | 71.0 |
| 1999 | 24 | 55.2 | 13.1 | 33.3 | 90.8 | 41.2 | 48.5 | 51.7 | 60.8 | 67.1 |
| 2000 | 33 | 57.3 | 10.3 | 35.8 | 75.4 | 45.1 | 48.3 | 56.2 | 64.8 | 71.3 |
| 2001 | 40 | 58.5 | 12.8 | 33.7 | 90.0 | 43.5 | 48.5 | 58.8 | 64.4 | 77.2 |
| 2002 | 46 | 56.2 | 11.1 | 26.4 | 79.9 | 40.5 | 48.9 | 56.6 | 62.3 | 69.5 |
| 2003 | 46 | 56.1 | 10.3 | 28.1 | 86.1 | 45.6 | 50.1 | 54.8 | 61.9 | 70.0 |
| 2004 | 44 | 58.5 | 11.2 | 38.4 | 88.4 | 43.2 | 49.3 | 59.0 | 65.2 | 70.7 |
| 2005 | 44 | 57.5 | 10.9 | 36.8 | 82.5 | 42.9 | 48.1 | 59.2 | 65.3 | 69.8 |
| 2006 | 46 | 62.3 | 12.2 | 33.8 | 92.0 | 46.0 | 55.3 | 59.8 | 71.7 | 76.4 |
| 2007 | 62 | 59.8 | 12.5 | 26.0 | 101 | 44.2 | 52.1 | 59.8 | 67.9 | 73.4 |
| 2008 | 55 | 59.8 | 11.4 | 21.8 | 87.1 | 45.1 | 52.5 | 60.0 | 69.2 | 74.3 |
| 2009 | 49 | 60.1 | 11.5 | 30.2 | 79.9 | 44.5 | 53.2 | 62.2 | 66.9 | 73.8 |
| 2010 | 59 | 60.9 | 14.7 | 24.5 | 92.8 | 45.2 | 49.0 | 59.7 | 70.3 | 84.0 |
| 2011 | 46 | 60.5 | 13.3 | 29.2 | 88.6 | 42.9 | 53.6 | 59.6 | 68.8 | 78.1 |
| 2012 | 56 | 62.2 | 12.2 | 25.7 | 85.9 | 45.1 | 54.3 | 63.4 | 72.1 | 75.3 |
| 2013 | 42 | 61.2 | 12.8 | 30.0 | 84.3 | 44.5 | 55.5 | 62.0 | 69.4 | 76.4 |
| 2014 | 11 | 60.1 | 11.9 | 41.3 | 75.8 | 42.9 | 51.1 | 62.7 | 72.4 | 74.4 |
| | | | | | | | | | | |
| 1998-2014 | 735 | 59.4 | 12.1 | 21.8 | 101 | 44.4 | 51.3 | 59.4 | 67.3 | 74.7 |

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 | 17 | 65.0 | 15.0 | 32.0 | 91.4 | 49.5 | 55.2 | 64.8 | 75.8 | 84.4 |
| 1999 | 19 | 64.3 | 15.0 | 25.6 | 87.3 | 42.2 | 53.3 | 68.2 | 75.3 | 79.3 |
| 2000 | 11 | 53.3 | 15.4 | 33.5 | 84.8 | 37.8 | 39.8 | 53.2 | 66.3 | 67.5 |
| 2001 | 13 | 63.1 | 10.0 | 44.0 | 76.2 | 52.0 | 56.9 | 60.5 | 72.4 | 76.0 |
| 2002 | 27 | 63.2 | /12.3 | 44.9 | 89.8 | 47,0 | 53.5 | 61.2 | 68.0 | 82.9 |
| 2003 | 18 | 70.9 | 16.7 | 35.5 | 98.2 | 44.8 | 63.1 | 71.6 | 84.0 | 91.2 |
| 2004 | 20 | 64.7 | 13.9 | 29.5 | 82.9 | 44.4 | 57.6 | 67.2 | 74.9 | 80.0 |
| 2005 | 20 | 60.4 | 11.8 | 33.0 | 92.0 | 48.1 | 54.0 | 61.3 | 64.7 | 72.8 |
| 2006 | 25 | 64.4 | 14.2 | 37.9 | 96.2 | 47.5 | 54.9 | 62.3 | 71.7 | 82.5 |
| 2007 | 27 | 61.8 | 12.8 | 34.4 | 83.6 | 45.5 | 53.7 | 62.8 | 69.4 | 79.8 |
| 2008 | 36 | 62.5 | 13.3 | 26.7 | 86.9 | 43.9 | 54.7 | 63.4 | 72.6 | 78.7 |
| 2009 | 33 | 64.7 | 14.1 | 32.4 | 88.9 | 47.5 | 54.2 | 65.8 | 75.4 | 82.8 |
| 2010 | 33 | 62.2 | 12.5 | 43.2 | 88.5 | 46.3 | 50.9 | 61.1 | 71.8 | 78.4 |
| 2011 | 24 | 62.8 | 16.6 | 31.2 | 92.8 | 40.8 | 49.6 | 64.3 | 75.1 | 86.6 |
| 2012 | 31 | 61.9 | 16.2 | 28.5 | 88.7 | 34.5 | 49.1 | 64.9 | 73.3 | 79.6 |
| 2013 | 23 | 68.8 | 17.2 | 28.1 | 95.5 | 46.3 | 53.2 | 73.1 | 79.9 | 89.1 |
| 2014 | 9 | 69.9 | 12.8 | 43.4 | 83.0 | 43.4 | 68.6 | 74.4 | 78.4 | 83.0 |
| | | | | | | | | | | |
| 1998-2014 | 386 | 63.7 | 14.3 | 25.6 | 98.2 | 45.5 | 53.9 | 64.2 | 74.4 | 82.2 |
| | | | | | | | | | | |

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 | 90 | Cum.% | n | 양 | Cum.% |
| 20-24 | 2 | 0.3 | 0.3 | 2 | 0.5 | 0.5 | | | 0.0 |
| 25-29 | 7 | 1.2 | 1.5 | 4 | 1.1 | 1.6 | 3 | 1.4 | 1.4 |
| 30-34 | 12 | 2.0 | 3.5 | 6 | 1.6 | 3.2 | 6 | 2.8 | 4.2 |
| 35-39 | 9 | 1.5 | 5.0 | 7 | 1.8 | 5.0 | 2 | 0.9 | 5.1 |
| 40 - 44 | 31 | 5.2 | 10.2 | 20 | 5.3 | 10.3 | 11 | 5.1 | 10.2 |
| 45-49 | 50 | 8.4 | 18.6 | 31 | 8.2 | 18.4 | 19 | 8.8 | 19.0 |
| 50-54 | 73 | 12.2 | 30.9 | 53 | 13.9 | 32.4 | 20 | 9.3 | 28.2 |
| 55-59 | 80 | 13.4 | 44.3 | 58 | 15.3 | 47.6 | 22 | 10.2 | 38.4 |
| 60-64 | 83 | 13.9 | 58.2 | 52 | 13.7 | 61.3 | 31 | 14.4 | 52.8 |
| 65-69 | 85 | 14.3 | 72.5 | 61 | 16.1 | 77.4 | 24 | 11.1 | 63.9 |
| 70-74 | 69 | 11.6 | 84.1 | 45 | 11.8 | 89.2 | 24 | 11.1 | 75.0 |
| 75-79 | 49 | 8.2 | 92.3 | 23 | 6.1 | 95.3 | 26 | 12.0 | 87.0 |
| 80-84 | 25 | 4.2 | 96.5 | 9 | 2.4 | 97.6 | 16 | 7.4 | 94.4 |
| 85+ | 21 | 3.5 | 100.0 | 9 | 2.4 | 100.0 | 12 | 5.6 | 100.0 |
| All ages | 596 | 100.0 | | 380 | 100.0 | | 216 | 100.0 | |

Included in the statistics are 34.5% multiple primaries in males and 31.2% in females.



Table 5 Age-specific incidence, DCO rate and proportion of all cancers for period 2007-2014

| | | | | | | | 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=7 | n=2 | n=91183 | n=89596 |
| Years | n | n | incid. | incid. | % | % | % | % |
| | | | | | | | | |
| 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 | | 0.2 | 0.0 | | | 0.5 | |
| 25-29 | 4 | 3 | 0.3 | 0.2 | | | 0.7 | 0.5 |
| 30-34 | 6 | 6 | 0.5 | 0.5 | | | 0.8 | 0.5 |
| 35-39 | 7 | 2 | 0.5 | 0.2 | | | 0.6 | 0.1 |
| 40 - 44 | 20 | 1,1 | 1.2 | 0.7 | | | 1.1 | 0.3 |
| 45-49 | 31 | 19 | 2.0 | 1.3 | | | 1.0 | 0.3 |
| 50-54 | 53 | 20 | 4.1 | 1.6 | | | 1.1 | 0.3 |
| 55-59 | 58 | 22 / | 5.5 | 2.0 | | 4.5 | 0.8 | 0.3 |
| 60-64 | 52 | 31/ | 5.3 | 2.9 | | | 0.5 | 0.3 |
| 65-69 | 61 | 24 | 6.3 | 2.3 | 3.3 | | 0.4 | 0.2 |
| 70 - 74 | 45 | 24 | 4.9 | 2.3 | 4.4 | | 0.3 | 0.2 |
| 75-79 | 23 | 26 | 4.2 | 3.6 | | | 0.2 | 0.3 |
| 80-84 | 9 | 16 | 2.6 | 2.9 | | | 0.1 | 0.2 |
| 85+ | 9 | 12 | 3.9 | 2.1 | 33.3 | 8.3 | 0.1 | 0.1 |
| | | | | | | | | |
| All ages | 380 | 216 | | | 1.8 | 0.9 | 0.4 | 0.2 |
| | | | | | | | | |
| Incidence | | | | | | | | |
| Raw | | | 2.1 | 1.2 | | | | |
| WS | | | 1.3 | 0.6 | | | | |
| ES | | | 1.8 | 0.9 | | | | |
| BRD-S | | | 2.0 | 1.0 | | | | |
| | | | | | | | | |

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 C02: Malignant neoplasm of other and unspecified parts of tongue Age distribution and age-specific incidence 2007 - 2014 (Males: 380, Females: 216)

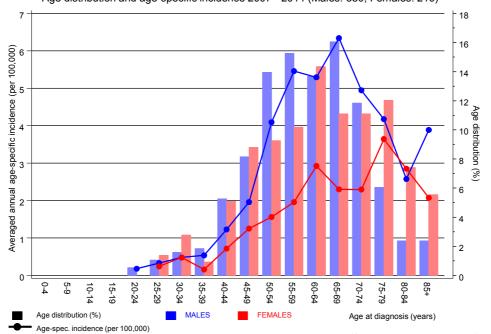


Figure 6. Age distribution and age-specific incidence



ICD-10 C02: Malignant neoplasm of other and unspecified parts of tongue Age-specific incidence rates: international comparison

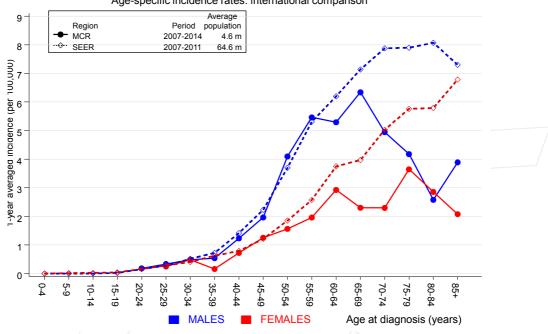


Figure 6a. Age-specific incidence in MCR registry areas compared to SEER (Surveillance, Epidemiology, and End Results, USA).



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.

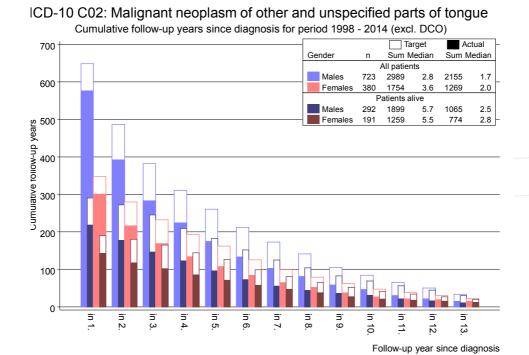


Figure 7. Cumulative follow-up years depending on time since diagnosis

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 1 | Expected | | LCL | UCL | | DCO |
|----------------------------|-------------|----------|------|-------|-------|-----------------|------|
| Diagnosis | / n / | n | SIR | 95% | 95% | EAR | % |
| - 5 | | | | | | | |
| C03-C06 Oral cavity | 4 | 0.3 | 13.1 | 3.6 | 33.6 | # 17.2 | |
| C09-C10 Oropharynx | 16 | 0.4 | 41.3 | 23.6 | 67.1 | # 72.5 | |
| C12-C13 Hypopharynx | 15 | 0.2 | 70.5 | 39.4 | 116.2 | # 68.7 | 26.7 |
| C15 Oesophagus | 13 | 0.5 | 25.1 | 13.3 | 42.9 | # 58 . 0 | |
| C18 Colon | 5 | 2.1 | 2.3 | 0.8 | 5.5 | 13.3 | 20.0 |
| C19-C20 Rectum | 5 | 1.4 | 3.5 | / 1.1 | 8.2 | # 16.6 | |
| C22 Liver | 3 | 0.7 | 4.4 | 0.9 | 12.9 | 10.8 | 33.3 |
| C32 Larynx | 9 | 0.3 | 29.0 | | 55.1 | # 40.4 | 11.1 |
| C33-C34 Lung | 35 | 3.0 | 11.9 | 8.3 | 16.5 | # 148.9 | 22.9 |
| C43 Malign. melanoma | . 2 | 1.2 | 1.7 | 0.2 | 6.2 | 3.9 | |
| C61 Prostate | 7 | 7.0 | 1.0 | 0.4 | 2.1 | -0.1 | |
| C64 Kidney | 3 | 0.9 | 3.2 | 0.7 | 9.5 | 9.6 | |
| C67 Bladder | 3 | 0.9 | 3.2 | 0.7 | 9.5 | 9.6 | 33.3 |
| C73 Thyroid | 2 | 0.2 | 8.7< | 1.1 | 31.5 | # 8.2 | |
| C82-C85 NHL | 3 | 0.9 | 3.2 | 0.7 | 9.2 | 9.5 | 33.3 |
| C91-C96 Leukaemia | 2 | 0.4 | 5.7 | 0.7 | 20.5 | 7.7 | |
| | | | | | | | |
| Other primaries | 7 | 2.6 | 2.7 | 1.1 | 5.6 | # 20.5 | 42.9 |
| Not observed | 0 | 1.7 | 0.0 | 0.0 | 2.1 | -8.0 | |
| | | | | | | | |
| All mult. primaries | 134 | 24.8 | 5.4 | 4.5 | 6.4 | # 507.3 | 14.9 |
| - | | | | | | | |
| | | | | | | | |
| Patients | | 7 | 22 | | | | |
| Median age at second malic | nancy (yea: | rs) 62 | .7 | | | | |
| Person-years | | 21 | 52 | | | | |
| Mean observation time (yea | ırs) | 3 | .0 | | | | |
| Median observation time (| rears) | 1 | . 7 | | | | |
| | | | | | | | |

The occurrence of second malignancy is statistically significant.

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

Table 8b

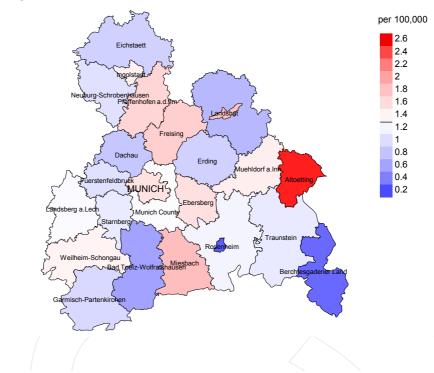
Standardized incidence ratio (SIR, with 95% confidence limits), excess absolute risk (EAR) and DCO rate of second primaries for period 1998-2014 FEMALES

| | Observed | Expected | | LCL | UCL | | DCO |
|-------------------------|------------|----------|-------|------|-------|---------|------|
| Diagnosis | n / | n | SIR | 95% | 95% | EAR | % |
| | | | | | | | |
| C03-C06 Oral cavity | 5 / | 0.1 | 63.3 | 20.5 | 147.7 | # 39.1 | |
| C09-C10 Oropharynx | 5 4 | 0.1 | 88.1 | 28.6 | 205.7 | # 39.3 | |
| C12-C13 Hypopharynx | | 0.0 | 265.9 | 72.5 | 680.9 | # 31.7 | 50.0 |
| C15 Oesophagus | 4 | 0.1 | 52.4 | 14.3 | 134.2 | # 31.2 | |
| C19-C20 Rectum | 2 | 0.5 | 3.9 | 0.5 | 14.2 | 11.8 | |
| C22 Liver | 2 | 0.1 | 14.5 | 1.8 | 52.3 | # 14.8 | 50.0 |
| C23-C24 Bile | 3 | 0.2 | 18.4 | 3.8 | 53.8 | # 22.5 | |
| C32 Larynx | 3 | 0.0 | 118.1 | 24.4 | 345.2 | # 23.6 | 33.3 |
| C33-C34 Lung | 15 | 0.9 | 16.2 | 9.1 | 26.7 | # 111.8 | 6.7 |
| C50 Breast | 4 | 4.0 | 1.0 | 0.3 | 2.6 | 0.0 | |
| C67 Bladder | 3 | 0.2 | 14.2 | 2.9 | 41.6 | # 22.2 | 66.7 |
| C73 Thyroid | 2 | 0.3 | 8.0 | 1.0 | 28.8 | 13.9 | |
| C82-C85 NHL | 2 | 0.5 | 4.3 | 0.5 | 15.6 | 12.2 | |
| | | | | | | | |
| Other primaries | 10 | 4.6 | 2.2 | 1.0 | 4.0 | # 42.9 | 10.0 |
| Not observed | 0 | 1.0 | 0.0 | 0.0 | 3.5 | -8.3 | |
| | | | | | | | |
| All mult. primaries | 64 | 12.6 | 5.1 | 3.9 | 6.5 | # 408.6 | 12.5 |
| _ | | | | | | | |
| | | | | | | | |
| Patients | | | 374 | | | | |
| Median age at second | malignancy | (years) | 68.0 | | | | |
| Person-years | | _ | 1259 | | | | |
| Mean observation time | (years) | | 3.4 | | | | |
| Median observation time | | | 2.0 | | | | |
| | | | | | | | |

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

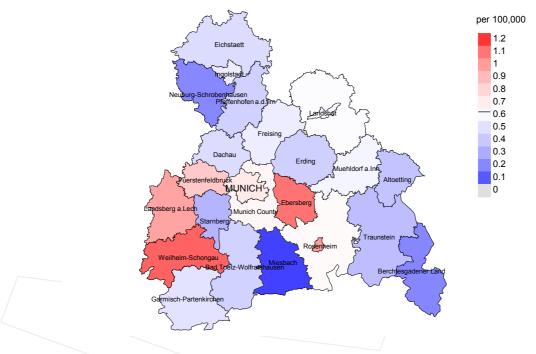
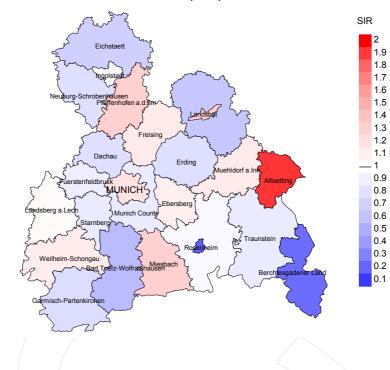


Figure 9a. Map of cancer incidence (world standard population, incl. DCO cases) by county averaged for period 2007 to 2014. According to their individual incidence rates, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population mean (males 1.3/100,000 WS N=380, females 0.6/100,000 WS N=216).

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 10 women were identified with newly diagnosed tongue excl. base of tongue. Therefore, the mean incidence rate for this cancer type in this area can be calculated at 1.1/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.4 and 2.5/100,000.

Standardized incidence ratio (SIR) 2007 - 2014: Males



Standardized incidence ratio (SIR) 2007 - 2014: Females

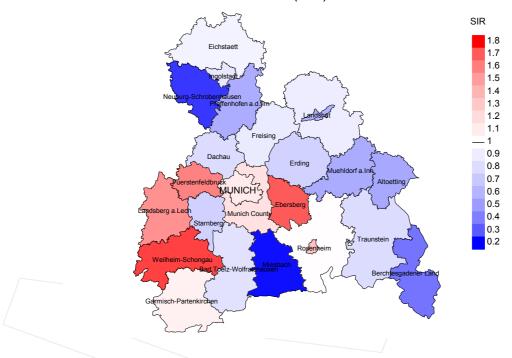


Figure 9b. Map of standardized incidence ratio (SIR, incl. DCO cases) by county averaged for period 2007 to 2014. According to their individual SIR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=380, females N=216).

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 10 women were identified with newly diagnosed tongue excl. base of tongue. Therefore, the mean standardized incidence ratio (SIR) for this cancer type in this area can be calculated at 1.70. Though, the value of this parameter may vary with an underlying probability of 99% between 0.63 and 3.64, 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)

| | | Prop. | | | | Prop. deaths |
|-----------|----------|----------|-------|--------|--------|-----------------|
| | Incident | actively | Prop. | | Prop. | with death |
| Year of | cases | followed | DCO | Deaths | deaths | certific. |
| diagnosis | n | % | 90 | n | % | 90 |
| 1998 | 49 | 98.0 | 4.1 | 40 | 81.6 | 95.0 |
| 1999 | 43 | 100.0 | | 37 | 86.0 | 91.9 |
| 2000 | 4 4 | 100.0 | 4.5 | 34 | 77.3 | 97.1 |
| 2001 | 53 | 100.0 | | 44 | 83.0 | 95.5 |
| 2002 | 73 | 97.3 | | 50 | 68.5 | 98.0 |
| 2003 | 64 | 98.4 | 3.1 | 45 | 70.3 | 100.0 |
| 2004 | 64 | 100.0 | | 47 | 73.4 | 95.7 |
| 2005 | 64 | 95.3 | | 43 | 67.2 | 100.0 |
| 2006 | 71 | 91.5 | 2.8 | 46 | 64.8 | 100.0 |
| 2007 | 89 | 78.7 | 4.5 | 54 | 60.7 | 100.0 |
| 2008 | 91 | 73.6 | | 45 | 49.5 | 100.0 |
| 2009 | 82 | 75.6 | 1.2 | 36 | 43.9 | 94.4 |
| 2010 | 92 | 71.7 | 1.1 | 43 | 46.7 | 95.3 |
| 2011 | 70 | 78.6 | 1.4 | 27 | 38.6 | 96.3 |
| 2012 | 87 | 64.4 | 1.1 | 28 | 32.2 | 96.4 |
| 2013 | 65 | 100.0 | | 25 | 38.5 | 92.0 |
| 2014 | 20 | 100.0 | 5.0 | 2 | 10.0 | 100.0 |
| 1998-2014 | 1121 | 86.8 | 1.5 | 646 | 57.6 | 97.1 |

Table 10b

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

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

| | | | Prop. | | D |
|------------|----------|--------|------------|-----------|-----------|
| _ | | | deaths | | Prop. |
| Year of | Incident | | with death | Deaths in | deaths in |
| diagnosis/ | cases | Deaths | certific. | same year | same year |
| death | n | n | olo | n | 90 |
| 1998 | 49 | 30 | 90.0 | 4 | 8.2 |
| 1999 | 43 | 23 | 82.6 | 4 | 9.3 |
| 2000 | 44 | 33 | 84.8 | 6 | 13.6 |
| 2001 | 53 | 39 | 89.7 | 9 | 17.0 |
| 2002 | 73 | 50 | 98.0 | 9 | 12.3 |
| 2003 | 64 | 51 | 98.0 | 7 | 10.9 |
| 2004 | 64 | 54 | 100.0 | 10 | 15.6 |
| 2005 | 64 | 53 | 100.0 | 6 | 9.4 |
| 2006 | 71 / | 62 | 93.5 | 10 | 14.1 |
| 2007 | 89 | 75 | 100.0 | 15 | 16.9 |
| 2008 | 91 | 57 | 96.5 | 6 | 6.6 |
| 2009 | 82 | 60 | 98.3 | 4 | 4.9 |
| 2010 | 92 | 63 | 100.0 | 6 | 6.5 |
| 2011 | 70 | 59 | 96.6 | 6 | 8.6 |
| 2012 | 87 | 63 | 95.2 | 12 | 13.8 |
| 2013 | 65 | 59 | 100.0 | 12 | 18.5 |
| 2014 | 20 | 45 | 97.8 | /2 | 10.0 |
| 1998-2014 | 1121 | 876 | 96.5 | 128 | 11.4 |

Table 10c

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

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

| | | | | Prop. |
|-----------|--------|---------|-------------|-------------|
| | | | | cancer |
| | | Prop. | Prop. | recorded |
| | | cancer- | non-cancer- | on death |
| Year of | Deaths | related | related | certificate |
| death | n | 양 | % | 응 |
| | | | | |
| 1998 | 30 | 56.7 | 43.3 | 85.2 |
| 1999 | 23 | 52.2 | 47.8 | 78.9 |
| 2000 | 33 | 69.7 | 30.3 | 96.4 |
| 2001 | 39 | 82.1 | 17.9 | 94.3 |
| 2002 | 50 | 74.0 | 26.0 | 91.8 |
| 2003 | 51 | 72.5 | 27.5 | 82.0 |
| 2004 | 54 | 81.5 | 18.5 | 90.7 |
| 2005 | 53 | 84.9 | 15.1 | 94.3 |
| 2006 | 62 | 67.7 | 32.3 | 81.0 |
| 2007 | 75 | 86.7 | 13.3 | 93.3 |
| 2008 | 57 | 78.9 | 21.1 | 90.9 |
| 2009 | \ 60 | 76.7 | 23.3 | 86.4 |
| 2010 | 63 | 82.5 | 17.5 | 92.1 |
| 2011 | 59 | 81.4 | 18.6 | 86.0 |
| 2012 | 63 | 76.2 | 23.8 | 90.0 |
| 2013 | 59 | 69.5 | 30.5 | 86.4 |
| 2013 | 45 | 77.8 | 22.2 | 90.9 |
| 2011 | 13 | , , • • | 22.2 | /50.5 |
| 1998-2014 | 876 | 76.4 | 23.6 | 89.1 |
| 1000 2014 | 070 | 70.1 | 23.0 | 0.5.1 |

Table 11a Medians of age at death according to the grouping in Table 10 MALES

| | | | | | 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 | 21 | 58.5 | 59.2 | 58.5 | 60.5 |
| 1999 | 17 | 58.7 | 58.7 | 59.0 | 58.7 |
| 2000 | 24 | 60.4 | 60.4 | 59.3 | 63.6 |
| 2001 | 28 | 58.9 | 58.9 | 63.2 | 58.4 |
| 2002 | 42 | 62.8 | 63.7 | 60.0 | 62.1 |
| 2003 | 32 | 64.9 | 63.4 | 76.9 | 63.5 |
| 2004 | 36 | 60.3 | 59.5 | 70.8 | 59.8 |
| 2005 | 30 | 62.7 | 60.9 | 69.5 | 62.4 |
| 2006 | 42 | 61.1 | 61.6 | 60.9 | 61.3 |
| 2007 | 56 | 61.4 | 60.8 | 65.0 | 60.8 |
| 2008 | 38 | 61.9 | 60.7 | 64.7 | 61.0 |
| 2009 | 35 | 67.0 | 62.6 | 69.4 | 65.2 |
| 2010 | 45 | 65.5 | 63.7 | 72.7 | 65.4 |
| 2011 | 45 | 68.8 | 66.2 | 74.4 | 65.8 |
| 2012 | 47 | 64.3 | 61.9 | 68.2 | 63.8 |
| 2013 | 33 | 62.8 | 59.6 | 75.4 | 61.4 |
| 2014 | 28 | 68.7 | 66.9 | 70.4 | 68.1 |
| | | | | | |
| 1998-2014 | 599 | 62.8 | 61.7 | 67.1 | 62.1 |
| | | | | | |

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 death | Deaths n | Age at death (all causes) | Age at death (cancer-related) Years | Age at death (non-cancer-related) Years | Age at death (according to death certificate) |
|---------------|-------------|---------------------------|-------------------------------------|---|---|
| | | | | | |
| 1998 | 9 | 67.8 | 67.8 | 64.4 | 65.1 |
| 1999 | 6 | 76.5 | 81.0 | 72.0 | 81.0 |
| 2000 | 9 | 69.8 | 67.9 | 85.7 | 69.8 |
| 2001 | 11 | 67.9 | 69.4 | 47.3 | 67.9 |
| 2002 | 8 | 63.8 | 61.1 | 75.6 | 63.8 |
| 2003 | 19 | 74.2 | 70.8 | 76.5 | 74.8 |
| 2004 | 18 | 74.9 | 80.4 | 66.6 | 75.2 |
| 2005 | 23 | 67.5 | 66.8 | 80.8 | 67.5 |
| 2006 | 20 | 80.3 | 76.9 | 84.4 | 73.2 |
| 2007 | 19 | 77.9 | 77.9 | 82.3 | 78.3 |
| 2008 | 19 | 69.2 | 66.2 | 69.4 | 65.0 |
| 2009 | 25 | 77.7 | 63.2 | 81.8 | 66.8 |
| 2010 | 18 | 68.2 | 67.7 | 82.0 | 67.7 |
| 2011 | 14 | 73.0 | 69.8 | 73.3 | 69.8 |
| 2012 | 16 | 65.7 | 64.2 | 75.5 | 65.7 |
| 2013 | 26 | 77.8 | 74.0 | 79.4 | 74.0 |
| 2014 | 17 | 70.3 | 69.5 | 76.0 | 70.3 |
| 1998-2014 | 277 | 70.4 | 68.9 | 78.3 | 69.3 |
| | | | | | |

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.

Table 12a $\hbox{Mortality measures (cancer-related death) and mortality-incidence-index}$ by year of death MALES

| 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 | 12 | 1.1 | 0.38 | 0.6 | 0.32 | 0.9 | 0.34 | 1.1 | 0.37 |
| 1999 | 9 | 0.8 | 0.38 | 0.6 | 0.37 | 0.8 | 0.39 | 0.9 | 0.42 |
| 2000 | 16 | 1.4 | 0.48 | 0.9 | 0.47 | 1.3 | 0.49 | 1.5 | 0.53 |
| 2001 | 22 | 1.9 | 0.56 | 1.2 | 0.56 | 1.7/ | 0.58 | 2.0 | 0.60 |
| 2002 | 31 | 1.7 | 0.67 | 1.0 | 0.60 | 1.4 | 0.65 | 1.7 | 0.72 |
| 2003 | 26 | 1.4 | 0.57 | 0.9 | 0.50 | 1,2 | 0.52 | 1.3 | 0.55 |
| 2004 | 29 | 1.5 | 0.66 | 1.0 | 0.68 | 1, 4 | 0.69 | 1.4 | 0.65 |
| 2005 | 26 | 1.4 | 0.59 | 0.9 | 0.57 | 1.2 | 0.61 | 1.3 | 0.63 |
| 2006 | 29 | 1.5 | 0.63 | 0.9 | 0.65 | 1.3 | 0.61 | 1.4 | 0.58 |
| 2007 | 48 | 2.2 | 0.77 | 1.3 | 0.75 | 1.8 | 0.78 | 2.1 | 0.80 |
| 2008 | 33 | 1.5 | 0.60 | 0.9 | 0.57 | 1.3 | 0.60 | 1.5 | 0.65 |
| 2009 | 27 | 1.2 | 0.55 | 0.7 | 0.49 | 1.0 | 0.52 | 1.1 | 0.55 |
| 2010 | 35 | 1.6 | 0.59 | 0.9 | 0.57 | 1.3 | 0.60 | 1.4 | 0.58 |
| 2011 | 37 | 1.6 | 0.80 | 0.9 | 0.72 | 1.3 | 0.74 | 1.5 | 0.80 |
| 2012 | 36 | 1.6 | 0.64 | 0.9 | 0.64 | 1.3 | 0.64 | 1.4 | 0.64 |
| 2013 | 24 | 1.1 | 0.57 | 0.6 | 0.58 | 0.9 | 0.59 | 1.0 | 0.57 |
| 2014 | 21 | 0.9 | 1.91 | 0.5 | 1.73 | 0.7 | 1.81 | 0.9 | 2.07 |
| | | | | | | | | | |
| 1998-2014 | 461 | 1.4 | 0.63 | 0.9 | 0.60 | 1.2 | 0.62 | 1.4 | 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. | ${\tt MI-Index}$ | Mort. | MI-Index |
|-----------|--------|-------|----------|-------|----------|-------|------------------|-------|----------|
| death | n | raw | raw | WS | WS | ES | ES | BRD-S | BRD-S |
| | | | | | | | | | |
| 1998 | 5 | 0.4 | 0.29 | 0.2 | 0.33 | 0.3 | 0.32 | 0.4 | 0.30 |
| 1999 | 3 | 0.3 | 0.16 | 0.1 | 0.10 | 0.2 | 0.12 | 0.2 | 0.14 |
| 2000 | 7 | 0.6 | 0.64 | 0.3 | 0.55 | 0.5 | 0.58 | 0.5 | 0.61 |
| 2001 | 10 | 0.8 | 0.77 | 0.4 | 0.71 | 0.6 | 0.72 | 0.8 | 0.80 |
| 2002 | 6 | 0.3 | 0.22 | 0.2 | 0.23 | 0.3 | 0.25 | 0.3 | 0.24 |
| 2003 | 11 | 0.6 | 0.61 | 0.2 | 0.60 | 0.3 | 0.60 | 0.4 | 0.63 |
| 2004 | 15 | 0.8 | 0.75 | 0.3 | 0.54 | 0.4 | 0.58 | 0.6 | 0.63 |
| 2005 | 19 | 1.0 | 0.95 | 0.5 | 0.74 | 0.7 | 0.81 | 0.8 | 0.87 |
| 2006 | 13 | 0.6 | 0.52 | 0.2 | 0.35 | 0.4 | 0.40 | 0.5 | 0.45 |
| 2007 | 17 | 0.7 | 0.63 | 0.3 | 0.39 | 0.4 | 0.44 | 0.6 | 0.53 |
| 2008 | 12 | 0.5 | 0.33 | 0.3 | 0.32 | 0.4 | 0.32 | 0.5 | 0.35 |
| 2009 | 19 | 0.8 | 0.58 | 0.4 | 0.54 | 0.6 | 0.57 | 0.7 | 0.57 |
| 2010 | 17 | 0.7 | 0.52 | 0.4 | 0.50 | 0.5 | 0.51 | 0.6 | 0.51 |
| 2011 | 11 | 0.5 | 0.46 | 0.2 | 0.37 | 0.3 | 0.39 | 0.4 | 0.44 |
| 2012 | 12 | 0.5 | 0.39 | 0.3 | 0.40 | 0.4 | 0.40 | 0.4 | 0.38 |
| 2013 | 17 | 0.7 | 0.74 | 0.3 | 0.63 | 0.4 | 0.66 | 0.5 | 0.66 |
| 2014 | 14 | 0.6 | 1.56 | 0.3 | 1.77 | 0.4 | 1.65 | 0.5 | 1.55 |
| | | | | | | | | | |
| 1998-2014 | 208 | 0.6 | 0.54 | 0.3 | 0.46 | 0.4 | 0.48 | 0.5 | 0.51 |

Table 13 Age distribution of age at death (cancer-related) for period 2007-2014 (incl. multiple primaries)

| Age at death Years | Cases n | olo | Cum.% | Males | olo | Cum.% | Females n | olo | Cum.% |
|--------------------------|------------|-------|----------|-------|-------|----------|--------------|-------|----------|
| ieals | 11 | 6 | Culli. 5 | / 11 | 6 | Culli. 5 | 11 | 6 | Culli. 5 |
| 20-24 | 1 | 0.3 | 0.3 | / 1 | 0.4 | 0.4 | | | 0.0 |
| 25-29 | 2 | 0.5 | 0.8 | 1 | 0.4 | 0.8 | 1 | 0.8 | 0.8 |
| 30-34 | 1 | 0.3 | 1.0/ | | | 0.8 | 1 | 0.8 | 1.7 |
| 35-39 | 4 | 1.0 | 2.1 | 2 | 0.8 | 1.5/ | 2 | 1.7 | 3.4 |
| 40 - 44 | 7 | 1.8 | 3.9 | 6 | 2.3 | 3.8 | 1 | 0.8 | 4.2 |
| 45-49 | 22 | 5.8 | 9.7 | 17 | 6.5 | 10.3 | 5 | 4.2 | 8.4 |
| 50-54 | 36 | 9.4 | 19.2 | 31 | 11.8 | 22.1 | 5 | 4.2 | 12.6 |
| 55-59 | 58 | 15.2 | 34.4 | 46 | 17.6 | 39.7 | 12 | 10.1 | 22.7 |
| 60-64 | 57 | 15.0 | 49.3 | 37 | 14.1 | 53.8 | 20 | 16.8 | 39.5 |
| 65-69 | 63 | 16.5 | 65.9 | 45 | 17.2 | 71.0 | 18 | 15.1 | 54.6 |
| 70-74 | 46 | 12.1 | 78.0 | 37 | 14.1 | 85.1 | 9 | 7.6 | 62.2 |
| 75-79 | 38 | 10.0 | 87.9 | 22 | 8.4 | 93.5 | 16 | 13.4 | 75.6 |
| 80-84 | 22 | 5.8 | 93.7 | 10 | 3.8 | 97.3 | 12 | 10.1 | 85.7 |
| 85+ | 24 | 6.3 | 100.0 | 7 | 2.7 | 100.0 | 17 | 14.3 | 100.0 |
| All ages | 381 | 100.0 | | 262 | 100.0 | | 119 | 100.0 | |

Included in the statistics are 34.5% multiple primaries in males and 31.2% in females.



Table 14 Age-specific mortality (cancer-related) and proportion of all cancers for period 2007-2014 (incl. multiple primaries)

| Age at death | Malaa | Esmales | Males Age- | | Females Age- | | = | Females Prop.all |
|--------------|-------|-----------|---------------|-------------|-----------------|-------------|--------------|---------------------|
| Years | n | Females n | spec. | MI-index | spec. | MT-index | cancers % | cancers % |
| 10010 | | | / | 111 1110011 | | 114 1110011 | Ů | |
| 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 | | 0.1 | | 0.0 | | 2.1 | |
| 25-29 | 1 | 1 | 0.1 | 0.25 | 0.1 | 0.33 | 1.6 | 1.6 |
| 30-34 | | 1 | 0.0 | | 0.1 | 0.17 | | 0.9 |
| 35-39 | 2 | 2 | 0.2 | | 0.2 | 1.00 | 1.1 | 0.8 |
| 40 - 44 | 6 | 1 | 0.4 | | 0.1 | 0.09 | 1.3 | 0.2 |
| 45-49 | 17 | 5 | 1.1 | | 0.3 | 0.26 | 1.7 | 0.4 |
| 50-54 | 31 | 5 | 2.4 | 0.58 | 0.4 | 0.25 | 1.7 | 0.3 |
| 55-59 | 46 | 12 | 4.3 | 0.79 | 1.1 | 0.55 | 1.5 | 0.5 |
| 60-64 | 37 | 20 | 3.8 | 0.71 | 1.9 | 0.65 | 0.8 | 0.6 |
| 65-69 | 45 | 18 | 4.7 | 0.74 | 1.7 | 0.75 | 0.6 | 0.3 |
| 70-74 | 37 | 9 | 4.1 | 0.82 | 0.9 | 0.38 | 0.4 | 0.1 |
| 75-79 | 22 | 16 | 4.0 | 0.96 | 2.2 | 0.62 | 0.3 | 0.3 |
| 80-84 | 10 | 12 | 2.9 | 1.11 | 2.1 | 0.75 | 0.1 | 0.2 |
| 85+ | 7 | 17 | 3.0 | 0.78 | 2.9 | 1.42 | 0.1 | 0.2 |
| | | | | | | | | |
| All ages | 262 | 119 | | | | | 0.5 | 0.3 |
| Marchalliba | | | | | | | | |
| Mortality | | | 1 5 | 0 60 | 0 6 | 0 55 | | |
| Raw | | | 1.5 | | 0.6 | 0.55 | | |
| WS | | | 0.8 | 0.65 | 0.3 | 0.48 | | |
| ES | | | 1.2 | 0.68 | 0.4 | 0.50 | | |
| BRD-S | | | 1.4 | 0.70 | 0.5 | 0.52 | | |
| PYLL-70 | | | | | | | | |
| per 100,000 | | | 13.8 | | 4.5 | | | |
| ES | | | 12.2 | | 3.9 | | | |
| AYLL-70 | | | 11.9 | | 11.0 | | | |
| | | | | | 11.0 | | | |

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

Table 15a Multiple primaries in deaths in period 1998-2014 MALES

| | | | | | Syn- | Syn- | | |
|----------------------|-------|-------|-----|------------|-------|------------|------|------------|
| | | | | | chron | chron | | |
| | Total | Total | Pre | Pre | ±30d | ±30d | Post | Post |
| Diagnosis | n | % ↓ | n | ← % | n | ← % | n | ← % |
| | | | | | | | | |
| C03-C06 Oral cavity | 26 | 10.7 | | | 2 | 7.7 | 24 | 92.3 |
| C09-C10 Oropharynx | 24 | 9.8 | | | 2 | 8.3 | 22 | 91.7 |
| C12-C13 Hypopharynx | / 19 | 7.8 | 6 | 31.6 | 1 | 5.3 | 12 | 63.2 |
| C15 Oesophagus | 20 | 8.2 | 1 | 5.0 | / 1 | 5.0 | 18 | 90.0 |
| C16 Stomach | 3 | 1.2 | | | | | 3 | 100.0 |
| C18 Colon | 3 | 1.2 | 1 | 33.3 | | | 2 | 66.7 |
| C19-C20 Rectum | 10 | 4.1 | 1 | 10.0 | | | 9 | 90.0 |
| C22 Liver | 4 | 1.6 | | | | | 4 | 100.0 |
| C25 Pancreas | 4 | 1.6 | | | | | 4 | 100.0 |
| C32 Larynx | 23 | 9.4 | 13 | 56.5 | 5 | 21.7 | 5 | 21.7 |
| C33-C34 Lung | 52 | 21.3 | 3 | 5.8 | 5 | 9.6 | 44 | 84.6 |
| C43 Malign. melanoma | 4 | 1.6 | 2 | 50.0 | | | 2 | 50.0 |
| C44 Skin others | 7 | 2.9 | 2 | 28.6 | | | 5 | 71.4 |
| C61 Prostate | 15 | 6.1 | 9 | 60.0 | | | 6 | 40.0 |
| C67 Bladder | 6 | 2.5 | 2 | 33.3 | 1 | 16.7 | 3 | 50.0 |
| C76-C79 CUP | 5 | 2.0 | 3 | 60.0 | | | 2 | 40.0 |
| C82-C85 NHL | 4 | 1.6 | 2 | 50.0 | 1 | 25.0 | 1 | 25.0 |
| C91-C96 Leukaemia | 4 | 1.6 | 2 | 50.0 | | | 2 | 50.0 |
| | | | | | | | | |
| Other primaries | 11 | 4.5 | 6 | 54.5 | | | 5 | 45.5 |
| | | | | | | | | |
| All mult. primaries | 244 | 100.0 | 53 | 21.7 | 18 | 7.4 | 173 | 70.9 |
| | | | | | | | | |

Multiple primaries with number of cases 1 to 2 are pooled in category "Other primaries"

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

Table 15b Multiple primaries in deaths in period 1998-2014 FEMALES

| | | FEMA | LES | | | | | |
|---|---|---|---|--|----------------------------|-----------------------------|--|---|
| Diagnosis | Total n | Total %↓ | Pre n | Pre ←% | Syn- chron ±30d n | Syn- chron ±30d ←% | Post n | Post ←% |
| C03-C06 Oral cavity C09-C10 Oropharynx C12-C13 Hypopharynx C15 Oesophagus C18 Colon C19-C20 Rectum C23-C24 Bile C25 Pancreas C32 Larynx C33-C34 Lung C43 Malign. melanoma C44 Skin others C50 Breast C54 Corpus uteri C56 Ovary C67 Bladder C90 Mult. myeloma | 15 10 5 7 5 2 2 2 2 3 18 3 2 18 2 3 3 | 13.2 8.8 4.4 6.1 4.4 1.8 1.8 2.6 15.8 2.6 1.8 2.6 1.8 | 3 1 1 1 1 1 1 2 2 1 1 | 60.0 50.0 33.3 5.6 33.3 61.1 100.0 66.7 33.3 50.0 | | | 15 10 5 7 2 1 2 17 2 2 7 | 100.0 100.0 100.0 40.0 50.0 100.0 50.0 66.7 94.4 66.7 100.0 38.9 33.3 66.7 50.0 |
| Other primaries | 12 | 10.5 | 5 | 41.7 | | | 7 | 58.3 |
| | | | | | | | | |

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

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

Table 16 Age-specific mortality (cancer-related) and proportion of all cancers for period 2007-2014 (First primaries only *)

| Age at death Years | Males Fema | / = / | MI-index | Females Age- spec. mortal. | MI-index | cancers | Females Prop.all cancers |
|---|---------------|-------------------------------------|--------------|----------------------------|------------------------------|--------------------------|--------------------------------|
| 0- 4 5- 9 10-14 15-19 20-24 | 1 | 0.0 0.0 0.0 0.0 0.0 | | 0.0 0.0 0.0 0.0 | | 2.3 | |
| 25-29 30-34 35-39 | 1 2 | 1 0.1 1 0.0 2 0.2 | | 0.1 0.1 0.2 | 0.33 0.17 1.00 | 1.8 | 1.7 1.1 0.9 |
| 40-44 45-49 50-54 | 5 17 25 | 1 0.3 4 1.1 4 1.9 | 0.59 0.58 | 0.1 0.3 0.3 | | 1.2 1.8 1.6 | 0.2 0.4 0.3 |
| 55-59 60-64 65-69 | 30 38 | 10 3.1 16 3.1 14 3.9 | 0.73 0.78 | 0.9 1.5 1.3 | 0.64 0.70 | 1.3 0.8 0.7 | 0.5 0.6 0.3 |
| 70-74 75-79 80-84 85+ | 7 | 8 3.3 14 2.7 10 2.0 14 3.0 | 0.94 | 0.8 2.0 1.8 2.4 | 0.40 0.64 0.77 1.75 | 0.4 0.2 0.1 0.2 | 0.2 0.3 0.2 0.2 |
| All ages | 211 | 99 | | | | 0.5 | 0.3 |
| Mortality Raw WS ES BRD-S | | 1.2 0.7 1.0 1.1 | 0.63 | 0.5 0.2 0.4 0.4 | 0.47 | | |
| PYLL-70 per 100,000 ES AYLL-70 | | 11.5 10.1 12.1 | | 3.9 3.3 11.6 | | | |

^{*} 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 *)

| | | | Males | | Females | | Males | Females |
|-------------|---------|---------|---------|----------|---------|----------|----------|----------|
| Age at | | | Age- | | Age- | | Prop.all | Prop.all |
| death | Males I | Females | spec. | | spec. | | cancers | cancers |
| Years | n | n | mortal. | MI-index | mortal. | MI-index | % | 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 | | 0.1 | 0.50 | 0.0 | | 2.6 | |
| 25-29 | 1 | 1 | 0.1 | 0.25 | 0.1 | 0.33 | 2.0 | 1.8 |
| 30-34 | | 1 | 0.0 | | 0.1 | 0.20 | | 1.2 |
| 35-39 | 2 | | 0.2 | 0.33 | 0.0 | | 1.3 | |
| 40-44 | 4 | 1 | 0.2 | 0.22 | 0.1 | 0.09 | 1.0 | 0.2 |
| 45-49 | 16 | 4 | 1.0 | | 0.3 | | 1.9 | 0.4 |
| 50-54 | 20 | 4 | 1.5 | 0.50 | 0.3 | | 1.4 | 0.3 |
| 55-59 | 19 | 8 | 1.8 | 0.44 | 0.7 | | 0.8 | 0.4 |
| 60-64 | 17 | 9 | 1.7 | 0.47 | 0.8 | 0.43 | 0.5 | 0.4 |
| 65-69 | 24 | 9 | 2.5 | 0.60 | 0.9 | | 0.5 | 0.3 |
| 70-74 | 23 | 4 | 2.5 | 0.70 | 0.4 | | 0.4 | 0.1 |
| 75-79 | 8 | 8 | 1.5 | 0.50 | 1.1 | 0.44 | 0.2 | 0.2 |
| 80-84 | 6 | 4 | 1.7 | 0.86 | 0.7 | | 0.1 | 0.1 |
| 85+ | 6 | 11 | 2.6 | 0.75 | 1.9 | | 0.2 | 0.2 |
| 031 | O | 11 | 2.0 | 0.75 | 1.7 | 1.50 | 0.2 | 0.2 |
| All ages | 147 | 64 | | | | | 0.5 | 0.2 |
| nii ages | 11/ | 04 | | | | | / 0.5 | 0.2 |
| Mortality | | | | | | | | |
| Raw | | | 0.8 | 0.51 | 0.3 | 0.41 | | |
| WS | | | 0.5 | 0.49 | 0.2 | 0.36 | | |
| ES | | | 0.7 | 0.50 | 0.2 | | | |
| BRD-S | | | 0.8 | 0.51 | 0.3 | 0.38 | | |
| DIAD 5 | | | 0.0 | 0.51 | 0.5 | 0.50 | | |
| PYLL-70 | | | | | | | | |
| per 100,000 | | | 8.7 | | 2.9 | | | |
| ES 100,000 | | | 7.6 | | 2.5 | | | |
| AYLL-70 | | | 13.5 | | 12.4 | | | |
| VITT- I A | | | 13.3 | | 12.4 | | | |

^{*} See corresponding tables with multiple primaries.

ICD-10 C02: Malignant neoplasm of other and unspecified parts of tongue Age distribution and age-specific mortality 2007 - 2014 (Males: 261, Females: 119)

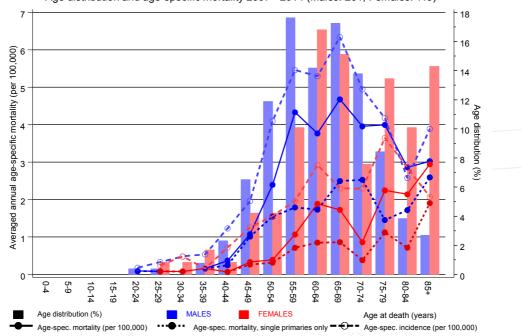
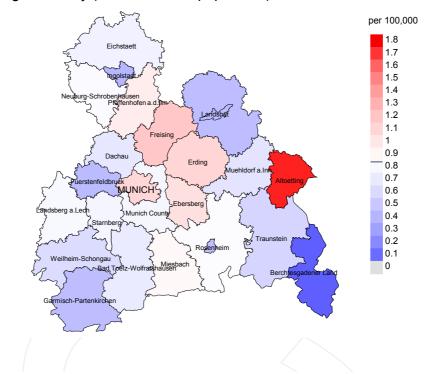


Figure 18. Distribution of age at death (bars) and age-specific mortality (all patients: solid line, patients with single primaries: dotted line). The age-specific incidence is additionally plotted for comparison (dashed line).

The difference between age at diagnosis (Table 3) and age at tongue excl. base of tongue-related death (see Table 10) should be considered.



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



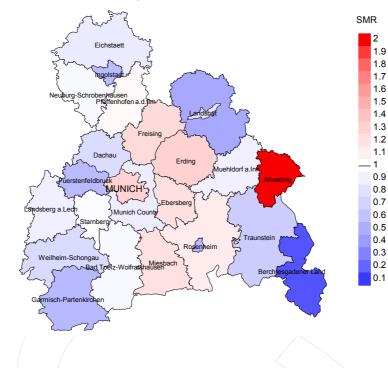
Average mortality (world standard population) 2007 - 2014: Females



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 0.8/100,000 WS N=260, females 0.3/100,000 WS N=118).

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 3 women died from tongue excl. base of tongue. Therefore, the mean mortality rate for this cancer type in this area can be calculated at 0.3/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.0 and 1.3/100,000.

Standardized mortality ratio (SMR) 2007 - 2014: Males



Standardized mortality ratio (SMR) 2007 - 2014: Females

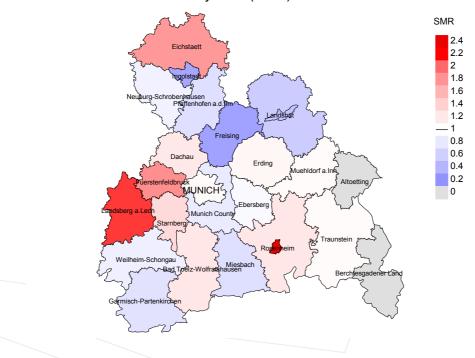


Figure 19b. Map of standardized mortality ratio (SMR, incl. DCO cases) by county averaged for period 2007 to 2014. According to their individual SMR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=260, females N=118).

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 3 women died from tongue excl. base of tongue. Therefore, the mean standardized mortality ratio (SMR) for this cancer type in this area can be calculated at 0.96. Though, the value of this parameter may vary with an underlying probability of 99% between 0.11 and 3.51, 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 agespecific 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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