Munich Cancer Registry



- ▶ Survival
- ▶ Selection Matrix
- ▶ Homepage

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

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

Cancer statistics: Baseline statistics

C45-C49: Mesoth. and soft tissue ca.

| Year of diagnosis | 1998-2012 |
|-------------------|------------|
| Patients | 3,705 |
| Diseases | 3,716 |
| Creation date | 03/20/2014 |
| Export date | 02/12/2014 |
| Population | 4.5 m |



http://www.tumorregister-muenchen.de/en/facts/base/base_C4549E.pdf

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

In these analyses, the clinics and physicians of Upper Bavaria and the city and county of Landshut[#], with a total of 4.5 million inhabitants, account for the frequency of cancer diseases^{##} and the achieved long term results. Additionally, the long term survival evaluated by the Munich Cancer Registry (MCR) is compared with the results of the population-based registry in the USA (SEER), which is useful for checking the consistency of the data on an international level.

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

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

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

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

Munich Cancer Registry, March 2014

- [#] Base data has been collected since 1998. An increase in new diseases is apparent, which is an effect of two extensions in the MCR catchment area (from a base population of 2.51 million to 3.96 in 2002, and to 4.52 million in 2007). Death certificates from 2013 are incorporated into these analyses.
- Due to the high frequency and good prognosis of non-malignant skin cancer (C44), no systematic ascertainment is performed for this diagnosis. C44 is not designated as a primary, but rather as a secondary tumor.
- DCO (death certificate only) identifies a cancer case that first becomes available to the MCR through the death certificate. A high proportion of DCO cases (≥5%) in particular cancer types indicate insufficient participation of specific cancer specializations.

ICD-10 codes used for specifying cancer site

| ICD-10 | Description |
|--------|--|
| C45 | Mesothelioma |
| C46 | Kaposi's sarcoma |
| C47 | Malignant neoplasm of peripheral nerves and autonomic nervous system |
| C48 | Malignant neoplasm of retroperitoneum and peritoneum |
| C49 | Malignant neoplasm of other connective and soft tissue |

INCIDENCE

Table 1

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

| | | | | Prop. | | Prop. |
|-----------|-------|-------|-------|-----------|--------|-----------|
| | | DCO | Prop. | mult. | Prop. | actively |
| Year of | Cases | cases | DCO | primaries | deaths | followed |
| diagnosis | n | 'n | % | % | % | % |
| 1998 | 155 | 24 | 15.5 | 20.0 | 83.2 | 100.0 |
| 1999 | 153 | 17 | 11.1 | 29.4 | 71.2 | 98.7 |
| 2000 | 157 | 32 | 20.4 | 21.7 | 68.2 | 98.1 |
| 2001 | 139 | 23 | 16.5 | 10.8 | 71.2 | 98.6 |
| 2002 | 222 | 34 | 15.3 | 20.7 | 76.1 | 98.2 # |
| 2003 | 242 | 31 | 12.8 | 22.3 | 73.6 | 97.1 # |
| 2004 | 257 | 30 | 11.7 | 19.8 | 66.9 | 98.8 # |
| 2005 | 265 | 16 | 6.0 | 21.1 | 67.9 | 95.1 # |
| 2006 | 242 | 19 | 7.9 | 26.0 | 65.3 | 96.3 # |
| 2007 | 327 | 17 | 5.2 | 22.9 | 61.2 | 87.2 # ## |
| 2008 | 324 | 16 | 4.9 | 21.9 | 67.0 | 82.4 |
| 2009 | 315 | 13 | 4.1 | 26.3 | 59.0 | 80.0 |
| 2010 | 332 | 17 | 5.1 | 27.4 | 54.8 | 77.4 |
| 2011 | 338 | 15 | 4.4 | 28.1 | 46.7 | 80.8 |
| 2012 | 248 | 18 | 7.3 | 23.8 | 35.5 | 97.6 ### |
| 1998-2012 | 3716 | 322 | 8.7 | 23.4 | 62.8 | 90.6 |

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

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

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

Table 1a

Patient cohorts by year of diagnosis and gender including DCO cases

| Year of | All | Males | Females | Prop. males | |
|-----------|------|-------|---------|-------------|--|
| diagnosis | n | n | n | 8 | |
| 1998 | 155 | 87 | 68 | 56.1 | |
| 1999 | 153 | 88 | 65 | 57.5 | |
| 2000 | 157 | 90 | 67 | 57.3 | |
| 2001 | 139 | / 71 | 68 | 51.1 | |
| 2002 | 222 | 130 | 92 | 58.6 | |
| 2003 | 242 | 125 | 117 | 51.7 | |
| 2004 | 257 | 166 | 91 | 64.6 | |
| 2005 | 265 | 149 | 116 | 56.2 | |
| 2006 | 242 | 143 | 99 | 59.1 | |
| 2007 | 327 | 179 | 148 | 54.7 | |
| 2008 | 324 | 184 | 140 | 56.8 | |
| 2009 | 315 | 174 | 141 | 55.2 | |
| 2010 | 332 | 178 | 154 | 53.6 | |
| 2011 | 338 | 182 | 156 | 53.8 | |
| 2012 | 248 | 134 | 114 | 54.0 | |
| | | | | | |
| 1998-2012 | 3716 | 2080 | 1636 | 56.0 | |
| | | | | | |
| | | | | | |
| | | | | | |

Table 2

Incidence measures by year of diagnosis and gender including DCO cases (with respect to registry area expansion from 2.51 to 3.96 m as of 2002, and from 3.96 to 4.52 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 | 87 | 68 | 7.9 | 5.8 | 5.5 | 3.4 | 7.2 | 4.3 | 8.6 | 5.1 |
| 1999 | 88 | 65 | 7.9 | 5.5 | 5.4 | 3.3 | 7.1 | 4.3 | 8.5 | 5.0 |
| 2000 | 90 | 67 | 7.9 | 5.6 | 5.5 | 3.5 | 7.2 | 4.2 | 8.5 | 5.0 |
| 2001 | 71 | 68 | 6.1 | 5.6 | 4.2 | 3.3 | 5.7 | 4.4 | 6.9 | 5.1 |
| 2002 | 130 | 92 | 7.0 | 4.7 | 4.9 | 2.8 | 6.2 | 3.6 | 7.4 | 4.2 |
| 2003 | 125 | 117 | 6.7 | 5.9 | 4.4 | 3.3 | 5.8 | 4.3 | 7.0 | 5.1 |
| 2004 | 166 | 91/ | 8.8 | 4.6 | 5.7 | 3.0 | 7.4 | 3.6 | 8.7 | 4.0 |
| 2005 | 149 | 116 | 7.9 | 5.8 | 5.5 | 3.6 | 6.8 | 4.4 | 7.7 | 5.2 |
| 2006 | 143 | 99 | 7.5 | 4.9 | 4.5 | 3.1 | 6.1 | 3.8 | 7.7 | 4.4 |
| 2007 | 179 | 148 | 8.1 | 6.4 | 5.1 | 3.6 | 6.5 | 4.6 | 7.9 | 5.4 |
| 2008 | 184 | 140 | 8.3 | 6.0 | 5.0 | 3.2 | 6.6 | 4.2 | 7.9 | 5.0 |
| 2009 | 174 | 141 | 7.8 | 6.1 | 4.3 | 3.3 | 6.0 | 4.5 | 7.6 | 5.3 |
| 2010 | 178 | 154 | 7.9 | 6.6 | 4.9 | 3.4 | 6.4 | 4.5 | 7.6 | 5.6 |
| 2011 | 182 | 156 | 8.0 | 6.6 | 4.5 | 3.3 | 6.1 | 4.5 | 7.6 | 5.3 |
| 2012 | 134 | 114 | 5.9 | 4.8 | 3.1 | 2.6 | 4.3 | 3.4 | 5.5 | 4.0 |
| | | | | | | | | | | |
| 1998-2012 | 2080 | 1636 | 7.6 | 5.7 | 4.7 | 3.2 | 6.3 | 4.2 | 7.6 | 4.9 |



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

Table 3

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

| Year of | Cases | | Std. | | | | | Median | | |
|-----------|-------|------|------|------|------|------|------|--------|------|------|
| diagnosis | n | Mean | dev. | Min. | Max. | 10% | 25% | 50% | 75% | 90% |
| | | | | | | | | | | |
| 1998 | 155 | 61.2 | 19.9 | 0.4 | 93.2 | 33.1 | 53.1 | 64.7 | 75.4 | 85.0 |
| 1999 | 153 | 61.7 | 16.3 | 3.5 | 97.4 | 39.8 | 52.9 | 64.2 | 73.0 | 78.9 |
| 2000 | 157 | 60.3 | 21.8 | 0,2 | 97.1 | 28.9 | 51.7 | 62.5 | 77.7 | 85.6 |
| 2001 | 139 | 61.7 | 16.3 | 11.8 | 95.4 | 40.6 | 51.1 | 62.7 | 73.6 | 82.3 |
| 2002 | 222 | 60.9 | 20.5 | 0.0 | 93.0 | 31.8 | 50.3 | 65.1 | 75.3 | 82.9 |
| 2003 | 242 | 62.8 | 19.5 | 2.6 | 92.5 | 32.4 | 55.4 | 66.3 | 77.0 | 83.4 |
| 2004 | 257 | 61.7 | 19.3 | 0.0 | 96.1 | 34.7 | 54.3 | 66.5 | 73.9 | 81.9 |
| 2005 | 265 | 60.3 | 20.6 | 0.2 | 92.0 | 31.7 | 50.9 | 65.0 | 74.1 | 82.3 |
| 2006 | 242 | 63.1 | 19.1 | 0.3 | 103 | 36.9 | 55.1 | 66.0 | 77.4 | 82.7 |
| 2007 | 327 | 63.5 | 18.5 | 0.1 | 96.4 | 39.2 | 58.0 | 67.8 | 75.7 | 81.2 |
| 2008 | 324 | 64.9 | 18.1 | 0.0 | 101 | 39.9 | 57.4 | 68.9 | 76.2 | 84.0 |
| 2009 | 315 | 66.0 | 16.5 | 0.2 | 97.3 | 42.7 | 58.8 | 68.6 | 77.6 | 83.5 |
| 2010 | 332 | 64.1 | 18.7 | 0.1 | 97.3 | 36.5 | 55.9 | 68.8 | 76.6 | 82.8 |
| 2011 | 338 | 66.2 | 17.3 | 0.0 | 96.8 | 41.9 | 58.4 | 70.1 | 77.9 | 84.0 |
| 2012 | 248 | 67.3 | 17.8 | 0.4 | 98.4 | 46.1 | 61.0 | 71.7 | 78.7 | 84.7 |
| | | | | | | | | | | |
| 1998-2012 | 3716 | 63.4 | 18.8 | 0.0 | 103 | 37.5 | 55.4 | 67.5 | 76.3 | 83.1 |

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 | 87 | 59.7 | 19.1 | 0.4 | 90.8 | 33.0 | 51.1 | 63.3 | 72.4 | 82.5 |
| 1999 | 88 | 61.4 | 16.7 | 3.5 | 97.4 | 39.4 | 54.5 | 63.4 | 72.1 | 78.4 |
| 2000 | 90 | 60.0 | 21.2 | 0.2 | 92.9 | 30.2 | 53.1 | 61.7 | 77.7 | 85.5 |
| 2001 | 71 | 62.1 | 16.9 | 11.8 | 95.4 | 43.0 | 51.5 | 63.7 | 73.7 | 81.4 |
| 2002 | 130 | 59.5 | 21.4 | 0.1 | 92.4 | 30.5 | 48.5 | 64.6 | 74.3 | 82.4 |
| 2003 | 125 | 61.3 | 19.4 | 7.6 | 90.3 | 31.0 | 55.4 | 66.2 | 74.8 | 82.7 |
| 2004 | 166 | 62.2 | 18.0 | 0.0 | 90.7 | 39.0 | 56.0 | 66.8 | 72.7 | 79.5 |
| 2005 | 149 | 58.9 | 20.2 | 0.2 | 90.9 | 34.9 | 50.5 | 64.0 | 71.7 | 80.8 |
| 2006 | 143 | 63.9 | 17.7 | 0.3 | 90.3 | 39.3 | 56.3 | 67.3 | 76.9 | 82.2 |
| 2007 | 179 | 63.0 | 19.1 | 0.1 | 96.4 | 36.8 | 57.8 | 68.2 | 74.9 | 79.6 |
| 2008 | 184 | 64.5 | 17.7 | 0.0 | 95.2 | 41.8 | 59.8 | 68.3 | 74.2 | 82.2 |
| 2009 | 174 | 66.8 | 17.7 | 0.2 | 97.3 | 41.4 | 61.6 | 69.8 | 79.2 | 83.8 |
| 2010 | 178 | 62.9 | 19.4 | 0.1 | 92.7 | 35.1 | 54.4 | 67.7 | 76.0 | 82.8 |
| 2011 | 182 | 65.5 | 17.3 | 0.0 | 95.3 | 39.2 | 58.3 | 70.2 | 76.6 | 83.4 |
| 2012 | 134 | 68.4 | 16.8 | 0.4 | 95.5 | 49.7 | 63.9 | 72.4 | 78.9 | 84.4 |
| | | | | | | | | | | |
| 1998-2012 | 2080 | 63.0 | 18.7 | 0.0 | 97.4 | 36.7 | 55.7 | 67.4 | 75.0 | 82.3 |

Table 3b

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

| Year of | Cases | | Std. | | | | | Median | | |
|-----------|-------|------|------|-------|------|------|------|--------|------|------|
| diagnosis | n | Mean | dev. | Min. | Max. | 10% | 25% | 50% | 75% | 90% |
| | | | | | | | | | | |
| 1998 | 68 | 63.0 | 20.9 | 3.4 | 93.2 | 33.1 | 54.6 | 67.2 | 77.6 | 85.2 |
| 1999 | 65 | 62.2 | 15.8 | 17.4 | 88.4 | 40.1 | 50.8 | 64.6 | 74.1 | 81.3 |
| 2000 | 67 | 60.6 | 22.7 | 0.4 | 97.1 | 28.1 | 46.9 | 64.9 | 78.0 | 87.6 |
| 2001 | 68 | 61.3 | 15.8 | 21.1 | 85.9 | 39.8 | 50.2 | 61.8 | 73.1 | 82.8 |
| 2002 | 92 | 62.8 | 19.0 | 0.0 | 93.0 | 39.0 | 53.4 | 65.8 | 76.3 | 83.4 |
| 2003 | 117 | 64.4 | 19.5 | 2.6 | 92.5 | 36.6 | 55.4 | 66.9 | 78.9 | 84.0 |
| 2004 | 91 | 60.8 | 21.6 | 0.2 | 96.1 | 30.8 | 48.5 | 65.7 | 76.6 | 83.7 |
| 2005 | 116 | 62.2 | 21.0 | / 1.1 | 92.0 | 28.7 | 52.6 | 67.6 | 77.8 | 82.6 |
| 2006 | 99 | 61.8 | 21.0 | 1.6 | 103 | 33.8 | 53.7 | 64.8 | 78.2 | 83.9 |
| 2007 | 148 | 64.3 | 17.8 | 0.3 | 89.4 | 42.1 | 58.1 | 67.5 | 76.8 | 82.3 |
| 2008 | 140 | 65.4 | 18.6 | 4.4 | 101 | 37.9 | 55.0 | 69.6 | 79.5 | 86.3 |
| 2009 | 141 | 65.1 | 15.1 | 2.2 | 94.3 | 45.8 | 57.9 | 66.7 | 76.2 | 81.9 |
| 2010 | 154 | 65.5 | 17.8 | 0.9 | 97.3 | 40.1 | 56.4 | 70.0 | 77.4 | 83.0 |
| 2011 | 156 | 66.9 | 17.3 | 0.0 | 96.8 | 42.5 | 59.1 | 70.1 | 79.0 | 86.3 |
| 2012 | 114 | 65.9 | 18.9 | 0.4 | 98.4 | 42.6 | 59.6 | 69.7 | 78.4 | 84.7 |
| | | | | | | | | | | |
| 1998-2012 | 1636 | 63.9 | 18.8 | 0.0 | 103 | 38.6 | 55.0 | 67.5 | 77.4 | 83.9 |

Table 4

Age distribution by 5-year age group and gender for period 1998-2012 (incl. DCO)

| Age at | | | | | | | | | |
|-----------|-------|-------|--------|-------|-------|-------|---------|-------|-------|
| diagnosis | Cases | | | Males | | | Females | | |
| Years | n | 용 | Cum.% | n | % | Cum.% | n | 왕 | Cum.% |
| | | | | | | | | | |
| 0-4 | 73 | 2.0 | 2.0 | 49 | 2.4 | 2.4 | 24 | 1.5 | 1.5 |
| 5-9 | 21 | 0.6 | 2.5 | /13 | 0.6 | 3.0 | 8 | 0.5 | 2.0 |
| 10-14 | 23 | 0.6 | 3.1 | / 11 | 0.5 | 3.5 | 12 | 0.7 | 2.7 |
| 15-19 | 28 | 0.8 | 3.9 | 14 | 0.7 | 4.2 | 14 | 0.9 | 3.5 |
| 20-24 | 32 | 0.9 | 4.8 | 17 | 0.8 | 5.0 | 15 | 0.9 | 4.5 |
| 25-29 | 53 | 1.4 | 6.2 | 25 | 1.2 | 6.2 | 28 | 1.7 | 6.2 |
| 30-34 | 90 | 2.4 | 8.6 | 52 | 2.5 | 8.7 | 38 | 2.3 | 8.5 |
| 35-39 | 113 | 3.0 | / 11.7 | 70 | 3.4 | 12.1 | 43 | 2.6 | 11.1 |
| 40 - 44 | 137 | 3.7 | 15.3 | 68 | 3.3 | 15.3 | 69 | 4.2 | 15.3 |
| 45-49 | 135 | 3.6 | 19.0 | 68 | 3.3 | 18.6 | 67 | 4.1 | 19.4 |
| 50-54 | 197 | 5.3 | 24.3 | 109 | 5.2 | 23.8 | 88 | 5.4 | 24.8 |
| 55-59 | 302 | 8.1 | 32.4 | 163 | 7.8 | 31.7 | 139 | 8.5 | 33.3 |
| 60-64 | 398 | 10.7 | 43.1 | 233 | 11.2 | 42.9 | 165 | 10.1 | 43.4 |
| 65-69 | 542 | 14.6 | 57.7 | 332 | 16.0 | 58.8 | 210 | 12.8 | 56.2 |
| 70-74 | 543 | 14.6 | 72.3 | 335 | 16.1 | 75.0 | 208 | 12.7 | 68.9 |
| 75-79 | 437 | 11.8 | 84.1 | 234 | 11.3 | 86.2 | 203 | 12.4 | 81.4 |
| 80-84 | 341 | 9.2 | 93.2 | 165 | 7.9 | 94.1 | 176 | 10.8 | 92.1 |
| 85+ | 251 | 6.8 | 100.0 | 122 | 5.9 | 100.0 | 129 | 7.9 | 100.0 |
| | | | | | | | | | |
| All ages | 3716 | 100.0 | | 2080 | 100.0 | | 1636 | 100.0 | |
| | | | | | | | | | |

Included in the statistics are 28.0% multiple primaries in males and 30.3% in females.

Table 5

Age-specific incidence, DCO rate and proportion of all cancers for period 1998-2012

| | | | TOT F | period i | 990-2012 | | | |
|-----------|-------|---------|--------|----------|----------|----------|-------|----------|
| | | | | | | | Males | Females |
| | | | | Females | | Females | | Prop.all |
| Age at | | | Age- | Age- | | DCO rate | | cancers |
| diagnosis | Males | Females | spec. | - | n=186 | n=136 | | n=142297 |
| Years | n | n | incid. | incid. | 0/0 | % | % | % |
| 0- 4 | 49 | 24 | 3.6 | 1.8 | 4.1 | | 16.0 | 10.6 |
| 5- 9 | 13 | 8 | 0.9 | 0.6 | | | 7.9 | 7.1 |
| 10-14 | 11 | 12 | 0.8 | 0.9 | | | 7.5 | 7.4 |
| 15-19 | 14 | 14 | 1.0 | 1.0 | 7.1 | 7.1 | 4.4 | 5.2 |
| 20-24 | 17 | 15 | 1.0 | 0.9 | 5.9 | | 3.1 | 3.1 |
| 25-29 | 25 | 28 | 1.4 | 1.5 | | | 2.8 | 2.7 |
| 30-34 | 52 | 38 | 2.5 | 1.8 | 1.9 | 2.6 | 3.7 | 2.0 |
| 35-39 | 70 | 43 | 3.0 | 1.9 | 7.1 | 2.3 | 3.3 | 1.2 |
| 40-44 | 68 | 69 | 2.8 | 3.0 | 1.5 | 2.9 | 2.3 | 1.2 |
| 45-49 | 68 | 67 | 3.2 | 3.2 | 10.3 | 4.5 | 1.4 | 0.8 |
| 50-54 | 109 | 88 | 5.9 | 4.7 | 9.2 | 3.4 | 1.4 | 0.9 |
| 55-59 | 163 | 139 | 9.6 | 7.8 | 8.0 | 5.8 | 1.2 | 1.1 |
| 60-64 | 232 | 165 | 14.1 | 9.5 | 6.9 | 3.0 | 1.1 | 1.0 |
| 65-69 | 332 | 210 | 22.6 | 13.1 | 6.9 | 2.4 | 1.3 | 1.2 |
| 70-74 | 335 | 208 | 28.9 | 15.1 | 8.7 | 6.7 | 1.4 | 1.2 |
| 75-79 | 234 | 202 | 31.1 | 18.5 | 11.5 | 9.9 | 1.2 | 1.2 |
| 80-84 | 165 | 176 | 36.3 | 20.4 | 18.2 | 19.3 | 1.3 | 1.2 |
| 85+ | 121 | 129 | 39.0 | 15.7 | 16.5 | 30.2 | 1.3 | 0.8 |
| | | | 33.0 | 13.7 | | | | |
| All ages | 2078 | 1635 | | | 9.0 | 8.3 | 1.4 | 1.1 |
| Incidence | | | | | | | | |
| Raw | | | 7.6 | 5.7 | | | | |
| WS | | | 4.7 | 3.2 | | | | |
| ES | | | 6.3 | 4.2 | | | | |
| BRD-S | | | 7.6 | 4.9 | | | | |
| DIED 5 | | | 7.0 | 1.7 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Table 6a

Standardized incidence ratio (SIR, with 95% confidence limits), excess absolute risk (EAR) and DCO rate of second primaries for period 1998-2012

MALES

| | Observed E | xpected | | LCL | UCL | | DCO |
|----------------------|------------|---------|------|-----|--------|-------|------|
| Diagnosis | n | n | SIR | 95% | 95% | EAR | 왕 |
| | / _ / | | \ | | | | |
| C03-C06 Oral cavity | / 3 / | 0.4 | 6.7 | | 19.7 # | | |
| C09-C10 Oropharynx | 2 / | 0.6 | 3.6 | 0.4 | 13.1 | 3.7 | |
| C15 Oesophagus | / 3/ | 0.9 | 3.3 | 0.7 | 9.6 | 5.4 | 33.3 |
| C16 Stomach | / 7 | 2.3 | 3.1 | 1.2 | 6.4 # | 12.2 | |
| C17 Small intestine | / 2 | 0.2 | 8.1 | 1.0 | 29.4 | 4.5 | |
| C18 Colon | / 9 | 5.3 | 1.7 | 0.8 | 3.2 | 9.6 | |
| C19-C20 Rectum | 4 | 3.0 | 1.4 | 0.4 | 3.5 | 2.7 | |
| C22 Liver | 3 | 1.4 | 2.1 | 0.4 | 6.1 | 4.0 | 33.3 |
| C23-C24 Bile | 2 | 0.5 | 3.9 | 0.5 | 14.2 | 3.8 | |
| C25 Pancreas | 2 | 1.8 | 1.1 | 0.1 | 3.9 | 0.4 | 50.0 |
| C33-C34 Lung | 17 | 6.2 | 2.8 | 1.6 | 4.4 # | 27.8 | 58.8 |
| C43 Malign. melanoma | 7 | 2.1 | 3.4 | 1.4 | 7.0 # | 12.7 | 14.3 |
| C46,C49 Soft tissue | 3 | 0.3 | 10.2 | 2.1 | 29.8 # | 7.0 | |
| C61 Prostate | 23 | 15.8 | 1.5 | 0.9 | 2.2 | 18.4 | 4.3 |
| C64 Kidney | 9 | 1.8 | 4.9 | 2.2 | 9.3 # | 18.4 | |
| C67 Bladder | 4 | 2.3 | 1.7 | 0.5 | 4.4 | 4.3 | |
| C70-C72 CNS cancer | 2 | 0.7 | 2.8 | 0.3 | 10.0 | 3.3 | 50.0 |
| C82-C85 NHL | 7 | 2.1 | 3.4 | 1.4 | 7.0 # | 12.7 | |
| C91-C96 Leukaemia | 4 | 0.9 | 4.6 | 1.3 | 11.8 # | 8.1 | |
| | | | | | | | |
| Other primaries | 10 | 2.9 | 3.5 | 1.7 | 6.4 # | 18.3 | |
| Not observed | 0 | 2.1 | 0.0 | 0.0 | 1.7 | -5.4 | |
| | | | | | | | |
| All mult. primaries | 123 | 53.6 | 2.3 | 1.9 | 2.7 # | 178.5 | 13.0 |
| - | | | | | / 7 | | |

| Patients | 1409 |
|---------------------------------------|------|
| Mean age at second malignancy (years) | 69.0 |
| Person-years | 3888 |
| Mean observation time (years) | 2.8 |
| Median observation time (years) | 1.5 |

The occurrence of second malignancy is statistically significant.

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

Table 6b
Standardized incidence ratio (SIR, with 95% confidence limits),

for period 1998-2012 FEMALES

excess absolute risk (EAR) and DCO rate of second primaries

| | Observed Ex | xpected | | LCL | UCL | | DCO |
|----------------------|-------------|---------|------|-----|--------|-------|------|
| Diagnosis | 'n | n | SIR | 95% | 95% | EAR | % |
| C18 Colon | 3 | 3.2 | 0.9 | 0.2 | 2.8 | -0.5 | |
| C19-C20 Rectum | 6 | 1.4 | 4.3 | 1.6 | 9.3 # | 13.3 | |
| C25 Pancreas | 2 / | 1.3 | 1.5 | 0.2 | 5.4 | 1.9 | 50.0 |
| C33-C34 Lung | 6 | 2.2 | 2.7 | 1.0 | 5.8 | 10.9 | 33.3 |
| C43 Malign. melanoma | 3 4 | 1.2 | 2.5 | 0.5 | 7.4 | 5.3 | |
| C46,C49 Soft tissue | 4 | 0.2 | 21.6 | 5.9 | 55.4 # | 11.1 | 25.0 |
| C50 Breast | 19 | 10.0 | 1.9 | 1.1 | 3.0 # | 26.1 | 5.3 |
| C53 Cervix uteri | 3 | 0.5 | 6.0 | 1.2 | 17.6 # | 7.3 | |
| C54 Corpus uteri | 6 | 1.8 | 3.4 | 1.2 | 7.3 # | 12.2 | |
| C56 Ovary | 20 | 1.4 | 14.7 | 9.0 | 22.8 # | 54.0 | 75.0 |
| C64 Kidney | 5 | 0.8 | 6.3 | 2.0 | 14.7 # | 12.2 | |
| C70-C72 CNS cancer | 2 | 0.5 | 4.3 | 0.5 | 15.5 | 4.4 | |
| C73 Thyroid | 2 | 0.7 | 3.0 | 0.4 | 10.9 | 3.9 | |
| C82-C85 NHL | 3 | 1.2 | 2.5 | 0.5 | 7.2 | 5.2 | |
| C91-C96 Leukaemia | 2 | 0.5 | 4.0 | 0.5 | 14.3 | 4.3 | |
| | | | | | | | |
| Other primaries | 6 | 2.1 | 2.9 | 1.1 | 6.4 # | 11.4 | 16.7 |
| Not observed | 0 | 3.6 | 0.0 | 0.0 | 1.0 | -10.5 | |
| | | | | | | | |
| All mult. primaries | 92 | 32.5 | 2.8 | 2.3 | 3.5 # | 172.5 | 22.8 |
| | | | | | | | |

| Patients | 1061 |
|---------------------------------------|------|
| Mean age at second malignancy (years) | 70.5 |
| Person-years | 3452 |
| Mean observation time (years) | 3.3 |
| Median observation time (years) | 2.0 |

The occurrence of second malignancy is statistically significant.

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

C45-C49: Mesothelial and soft tissue cancers

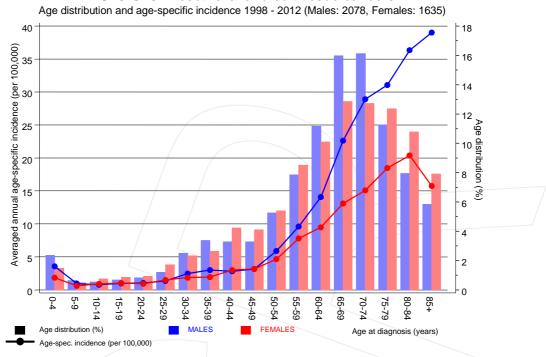


Figure 7. Age distribution and age-specific incidence



C45-C49: Mesothelial and soft tissue cancers

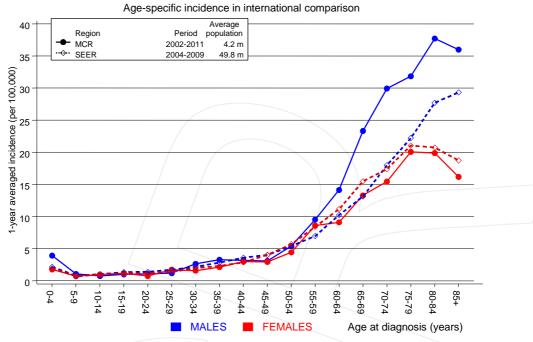


Figure 7a. Age-specific incidence in MCR registry areas compared to SEER (Surveillance, Epidemiology, and End Results, USA).



Reference:

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

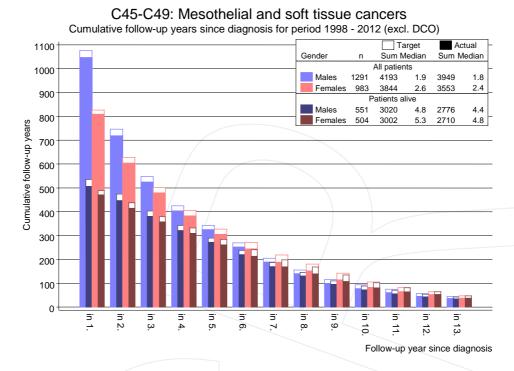
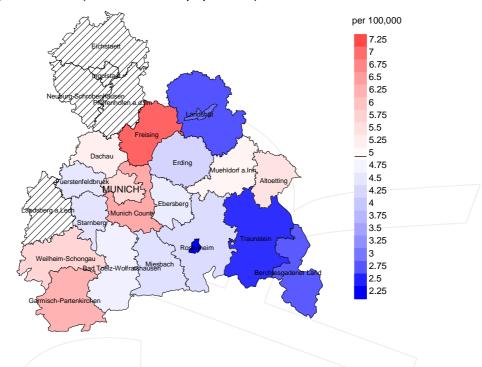


Figure 8. Cumulative follow-up years depending on time since diagnosis

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



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



Average incidence (world standard population) 2003 - 2008: Females

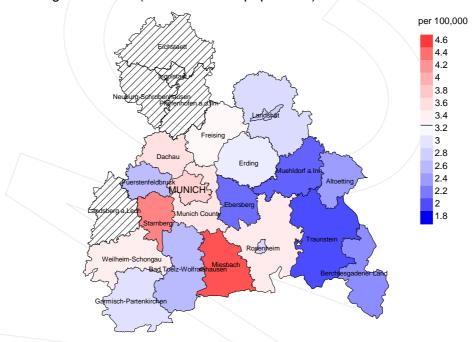


Figure 9a. Map of cancer incidence (world standard population, incl. DCO cases) by county averaged for period 2003 to 2008. According to their individual incidence rates, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population mean (males 5.0/100,000 WS N=895, females 3.3/100,000 WS N=676). Since cancer data are not available in some counties until 2007, the local incidence rates were not calculated, and the map tiles show as shaded.

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 63,131 female residents (averaged) in the period from 2003 to 2008 a total of 14 women were identified with newly diagnosed mesoth, and soft tissue ca.. Therefore, the mean incidence rate for this cancer type in this area can be calculated at 2.1/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.7 and 5.3/100,000.

Standardized incidence ratio (SIR) 2003 - 2008: Males

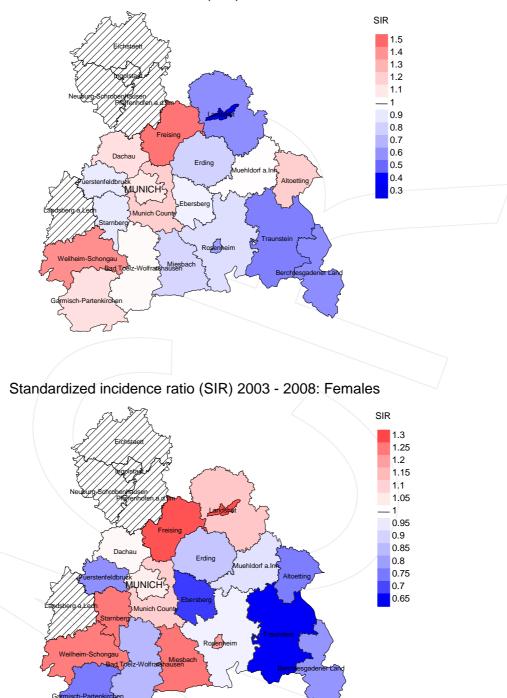


Figure 9b. Map of standardized incidence ratio (SIR, incl. DCO cases) by county averaged for period 2003 to 2008. According to their individual SIR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=895, females N=676). Since cancer data are not available in some counties until 2007, the local SIR values were not calculated, and the map tiles show as shaded.

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 63,131 female residents (averaged) in the period from 2003 to 2008 a total of 14 women were identified with newly diagnosed mesoth. and soft tissue ca.. Therefore, the mean standardized incidence ratio (SIR) for this cancer type in this area can be calculated at 0.69. Though, the value of this parameter may vary with an underlying probability of 99% between 0.31 and 1.33, and is therefore not statistically striking.

MORTALITY

Table 10a

Patient cohorts of incident cancers by year of diagnosis, follow-up status, proportion of DCO, deaths among the annual cohorts, and proportion of available death certificates (with respect to registry area expansion from 2.51 to 3.96 m as of 2002, and from 3.96 to 4.52 m as of 2007, respectively)

| | | Prop. | | | | Prop. deaths |
|-----------|----------|----------|-------|--------|--------|-----------------|
| | Incident | actively | Prop. | | Prop. | with death |
| Year of | cases | followed | DCO | Deaths | deaths | certific. |
| diagnosis | n | % | % | _ n _ | % | % |
| 1998 | 155 | 100.0 | 15.5 | 129 | 83.2 | 94.6 |
| 1999 | 153 | 98.7 | 11.1 | 109 | 71.2 | 93.6 |
| 2000 | 157 | 98.1 | 20.4 | 107 | 68.2 | 97.2 |
| 2001 | 139 | 98.6 | 16.5 | 99 | 71.2 | 94.9 |
| 2002 | 222 | 98.2 | 15.3 | 169 | 76.1 | 95.3 |
| 2003 | 242 | 97.1 | 12.8 | 178 | 73.6 | 95.5 |
| 2004 | 257 | 98.8 | 11.7 | 172 | 66.9 | 98.3 |
| 2005 | 265 | 95.1 | 6.0 | 180 | 67.9 | 97.8 |
| 2006 | 242 | 96.3 | 7.9 | 158 | 65.3 | 98.7 |
| 2007 | 327 | 87.2 | 5.2 | 200 | 61.2 | 98.0 |
| 2008 | 324 | 82.4 | 4.9 | 217 | 67.0 | 98.6 |
| 2009 | 315 | 80.0 | 4.1 | 186 | 59.0 | 96.8 |
| 2010 | 332 | 77.4 | 5.1 | 182 | 54.8 | 98.4 |
| 2011 | 338 | 80.8 | 4.4 | 158 | 46.7 | 98.1 |
| 2012 | 248 | 97.6 | 7.3 | 88 | 35.5 | 96.6 |
| | | | | | | |
| 1998-2012 | 3716 | 90.6 | 8.7 | 2332 | 62.8 | 97.0 |
| | | | | | | |

Table 10b

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

| | | | Prop. deaths | | Prop. |
|------------|----------|--------|-----------------|-----------|-----------|
| Year of | Incident | | with death | Deaths in | deaths in |
| diagnosis/ | cases | Deaths | certific. | same year | same year |
| death | n | n | 9 | n | 8 |
| 1998 | 155 | 116 | 94.8 | 45 | 29.0 |
| 1999 | 153 | 95 | 91.6 | 31 | 20.3 |
| 2000 | 157 | 110 | 94.5 | 37 | 23.6 |
| 2001 | 139 | 104 | 94.2 | 38 | 27.3 |
| 2002 | 222 | 145 | 96.6 | 62 | 27.9 |
| 2003 | 242 | 137 | 93.4 | 63 | 26.0 |
| 2004 | 257 | 170 | 97.1 | 60 | 23.3 |
| 2005 | 265 | 176 | 97.7 | 55 | 20.8 |
| 2006 | 242 | 175 | 96.6 | 50 | 20.7 |
| 2007 | 327 | 198 | 98.0 | 60 | 18.3 |
| 2008 | 324 | 196 | 98.5 | 67 | 20.7 |
| 2009 | 315 | 230 | 97.8 | 61 | 19.4 |
| 2010 | 332 | 238 | 98.7 | 64 | 19.3 |
| 2011 | 338 | 241 | 99.2 | 78 | 23.1 |
| 2012 | 248 | 239 | 99.2 | 58 | 23.4 |
| 1998-2012 | 3716 | 2570 | 97.1 | 829 | 22.3 |

Table 10c

Annual cohorts of deaths, proportion of cancer-related and not cancer-related deaths, and cancer recorded on death certificates (incl. DCO)

(with respect to registry area expansion from 2.51 to 3.96 m as of 2002, and from 3.96 to 4.52 m as of 2007, respectively)

| | | | | Prop. cancer | |
|-----------|--------|---------|-------------|-----------------|--|
| | | Prop. | Prop. | recorded | |
| | | / - | | | |
| | , / | cancer- | not cancer- | on death | |
| Year of | Deaths | related | related | certificate | |
| death | n | % | 8 | 8 | |
| 1998 | 116 | 76.7 | 23.3 | 93.6 | |
| 1999 | 95 | 83.2 | 16.8 | 95.4 | |
| 2000 | 110 | 86.4 | 13.6 | 96.2 | |
| 2001 | 104 | 90.4 | 9.6 | 98.0 | |
| 2002 | 145 | 84.8 | 15.2 | 93.6 | |
| 2003 | 137 | 88.3 | 11.7 | 91.4 | |
| 2004 | 170 | 86.5 | 13.5 | 92.7 | |
| 2005 | 176 | 89.8 | 10.2 | 92.4 | |
| 2006 | 175 | 88.0 | 12.0 | 91.1 | |
| 2007 | 198 | 87.4 | 12.6 | 94.3 | |
| 2008 | 196 | 90.3 | 9.7 | 92.7 | |
| 2009 | 230 | 87.4 | 12.6 | 90.7 | |
| 2010 | 238 | 89.5 | 10.5 | 91.5 | |
| 2011 | 241 | 86.7 | 13.3 | 91.6 | |
| 2012 | 239 | 85.8 | 14.2 | 92.4 | |
| 1998-2012 | 2570 | 87.1 | 12.9 | 92.7 | |
| | | | | | |

Table 11a $\begin{tabular}{ll} Means of age at death according to the grouping in Table 10 \\ \hline MALES \end{tabular}$

| | | | | | Age at |
|-----------|--------|---------|----------|--------------|--------------|
| | | Age at | Age at | Age at | death |
| | | death | death | death | (according |
| | | (all | (cancer- | (not cancer- | to death |
| Year of | Deaths | causes) | related) | related) | certificate) |
| death | n | Years | Years | Years | Years |
| | | | | | |
| 1998 | 69 | 66.1 | 64.9 | 70.0 | 65.5 |
| 1999 | 62 | 63.8 | 62.4 | 71.9 | 63.6 |
| 2000 | 63 | 65.5 | 64.6 | 71.7 | 65.1 |
| 2001 | 56 | 63.4 | 62.3 | 71.3 | 64.5 |
| 2002 | 89 | 67.7 | 67.1 | 71.0 | 67.1 |
| 2003 | 75 | 67.8 | 65.5 | 84.9 | 65.3 |
| 2004 | 101 | 66.5 | 65.4 | 73.3 | 66.8 |
| 2005 | 108 | 67.0 | 66.5 | 71.3 | 66.5 |
| 2006 | 102 | 69.9 | 69.7 | 71.0 | 70.1 |
| 2007 | 131 | 67.8 | 67.1 | 73.4 | 66.9 |
| 2008 | 121 | 71.0 | 70.2 | 78.4 | 69.7 |
| 2009 | 134 | 71.7 | 70.0 | 81.3 | 70.5 |
| 2010 | 136 | 73.4 | 72.6 | 79.2 | 72.7 |
| 2011 | 138 | 72.2 | 71.3 | 78.0 | 71.7 |
| 2012 | 134 | 71.9 | 70.9 | 78.7 | 71.6 |
| | | | | | |
| 1998-2012 | 1519 | 69.2 | 68.2 | 75.5 | 68.6 |
| | | | | | |

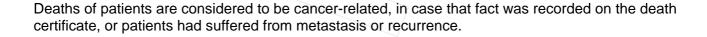


Table 11b Means of age at death according to the grouping in Table 10 FEMALES

| | | | | | Age at |
|-----------|--------|---------|----------|--------------|--------------|
| | | Age at | Age at | Age at | death |
| | | death | death | death | (according |
| | | (all | (cancer- | (not cancer- | to death |
| Year of | Deaths | causes) | related) | related) | certificate) |
| death | n | Years | Years | Years | Years |
| | | | | | |
| 1998 | 47 | 70.4 | 66.6 | 82.9 | 69.7 |
| 1999 | 33 | 63.9 | 63.2 | 66.2 | 64.7 |
| 2000 | 47 | 71.8 | 72.4 | 67.8 | 71.5 |
| 2001 | 48 | 65.3 | 65.6 | 61.5 | 66.1 |
| 2002 | 56 | 66.1 | 64.2 | 79.7 | 65.9 |
| 2003 | 62 | 68.0 | 66.2 | 82.1 | 68.1 |
| 2004 | 69 | 70.3 | 68.0 | 85.2 | 67.9 |
| 2005 | 68 | 71.4 | 70.6 | 78.4 | 71.2 |
| 2006 | 73 | 72.1 | 70.2 | 84.1 | 71.9 |
| 2007 | 67 | 72.2 | 71.6 | 75.7 | 71.6 |
| 2008 | 75 | 73.4 | 71.4 | 90.0 | 71.5 |
| 2009 | 96 | 72.5 | 71.5 | 81.9 | 72.3 |
| 2010 | 102 | 71.5 | 70.3 | 87.5 | 70.5 |
| 2011 | 103 | 74.7 | 73.9 | 79.2 | 74.4 |
| 2012 | 105 | 74.2 | 72.4 | 83.4 | 73.2 |
| | | | | | |
| 1998-2012 | 1051 | 71.2 | 69.9 | 80.3 | 70.7 |
| | | | | | |



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

| 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 | 53 | 4.8 | 0.61 | 3.1 | 0.56 | 4.4 | 0.60 | 5.3 | 0.62 |
| 1999 | 53 | 4.7 | 0.60 | 3.2 | 0.60 | 4.3 | 0.61 | 5.2 | 0.62 |
| 2000 | 55 | 4.8 | 0.61 | 3.1 | 0.56 | 4.3 | 0.60 | 5.2 | 0.62 |
| 2001 | 49 | 4.2 | 0.69 | 2.8 | 0.66 | 3.7 | 0.64 | 4.4 | 0.64 |
| 2002 | 74 | 4.0 | 0.57 | 2.3 | 0.47 | 3.4 | 0.54 | 4.2 | 0.57 |
| 2003 | 66 | 3.5 | 0.53 | 2.2 | 0.49 | 3.0 | 0.51 | 3.8 | 0.54 |
| 2004 | 87 | 4.6 | 0.52 | 2.8 | 0.49 | 3.8 | 0.52 | 4.9 | 0.57 |
| 2005 | 97 | 5.1 | 0.65 | 3.0 | 0.54 | 4.1 | 0.60 | 5.2 | 0.67 |
| 2006 | 91 | 4.8 | 0.64 | 2.5 | 0.57 | 3.7 | 0.61 | 4.9 | 0.63 |
| 2007 | 116 | 5.2 | 0.65 | 2.9 | 0.57 | 4.1 | 0.63 | 5.2 | 0.66 |
| 2008 | 110 | 4.9 | 0.60 | 2.5 | 0.50 | 3.7 | 0.56 | 4.9 | 0.63 |
| 2009 | 114 | 5.1 | 0.66 | 2.4 | 0.57 | 3.7 | 0.61 | 4.8 | 0.63 |
| 2010 | 118 | 5.2 | 0.66 | 2.4 | 0.49 | 3.7 | 0.58 | 5.1 | 0.67 |
| 2011 | 120 | 5.3 | 0.66 | 2.4 | 0.55 | 3.7 | 0.62 | 5.1 | 0.68 |
| 2012 | 117 | 5.1 | 0.88 | 2.5 | 0.80 | 3.7 | 0.85 | 4.9 | 0.90 |
| | | | | | | | | | |
| 1998-2012 | 1320 | 4.8 | 0.64 | 2.6 | 0.55 | 3.8 | 0.60 | 4.9 | 0.65 |

Table 12b

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

FEMALES

| Year of | Deaths | Mort. | MI-Index | Mort. | MI-Index | Mort. | MI-Index | Mort. | MI-Index |
|-----------|--------|-------|----------|-------|----------|-------|----------|-------|----------|
| death | n | raw | raw | WS | WS | ES | ES | BRD-S | BRD-S |
| | | | | | | | | | |
| 1998 | 36 | 3.1 | 0.53 | 1.6 | 0.48 | 2.2 | 0.51 | 2.8 | 0.54 |
| 1999 | 26 | 2.2 | 0.40 | 1.4 | 0.41 | 1.7 | 0.39 | 2.0 | 0.40 |
| 2000 | 40 | 3.3 | 0.60 | 1.3 | 0.37 | 2.0 | 0.46 | 2.7 | 0.54 |
| 2001 | 45 | 3.7 | 0.66 | 2.0 | 0.60 | 2.6 | 0.60 | 3.2 | 0.64 |
| 2002 | 49 | 2.5 | 0.53 | 1.5 | 0.52 | 1.8 | 0.52 | 2.2 | 0.53 |
| 2003 | 55 | 2.8 | 0.47 | 1.5 | 0.44 | 1.9 | 0.43 | 2.3 | 0.44 |
| 2004 | 60 | 3.0 | 0.66 | 1.4 | 0.48 | 2.1 | 0.58 | 2.6 | 0.65 |
| 2005 | 61 | 3.1 | 0.53 | 1.3 | 0.37 | 1.9 | 0.44 | 2.5 | 0.48 |
| 2006 | 63 | 3.1 | 0.64 | 1.4 | 0.46 | 2.0 | 0.52 | 2.6 | 0.59 |
| 2007 | 57 | 2.5 | 0.39 | 1.0 | 0.28 | 1.5 | 0.32 | 2.0 | 0.38 |
| 2008 | 67 | 2.9 | 0.48 | 1.2 | 0.37 | 1.7 | 0.40 | 2.2 | 0.44 |
| 2009 | 87 | 3.7 | 0.62 | 1.6 | 0.49 | 2.3 | 0.51 | 3.0 | 0.56 |
| 2010 | 95 | 4.1 | 0.62 | 1.8 | 0.52 | 2.5 | 0.56 | 3.3 | 0.59 |
| 2011 | 89 | 3.8 | 0.57 | 1.4 | 0.41 | 2.1 | 0.46 | 2.8 | 0.54 |
| 2012 | 88 | 3.7 | 0.77 | 1.5 | 0.58 | 2.2 | 0.66 | 2.9 | 0.74 |
| | | | | | | | | | |
| 1998-2012 | 918 | 3.2 | 0.56 | 1.4 | 0.45 | 2.0 | 0.49 | 2.6 | 0.54 |

Table 13

Age distribution of age at death (cancer-related) for period 1998-2012 (incl. multiple primaries)

| Age at | | | | | | | | |
|----------|-------|-----------|-------|-------|-------|---------|-------|-------|
| death | Cases | | Males | | | Females | | |
| Years | n | % Cum.% | n | % | Cum.% | n | % | Cum.% |
| | | | | | | | | |
| 0 - 4 | 9 | 0.4 0.4 | 7 | 0.5 | 0.5 | 2 | 0.2 | 0.2 |
| 5-9 | 11 | 0.5 0.9 | / 5 | 0.4 | 0.9 | 6 | 0.7 | 0.9 |
| 10-14 | 5 | 0.2 1.1 | / 3 | 0.2 | 1.1 | 2 | 0.2 | 1.1 |
| 15-19 | 8 | 0.4 1.5 | 3 | 0.2 | 1.4 | 5 | 0.5 | 1.6 |
| 20-24 | 14 | 0.6 /2.1 | 6 | 0.5 | 1.8 | 8 | 0.9 | 2.5 |
| 25-29 | 20 | 0.9 / 3.0 | / 11 | 0.8 | 2.6 | 9 | 1.0 | 3.5 |
| 30-34 | 23 | 1.0 4.0 | 14 | 1.1 | 3.7 | 9 | 1.0 | 4.4 |
| 35-39 | 29 | 1.3 5.3 | 18 | 1.4 | 5.1 | 11 | 1.2 | 5.6 |
| 40 - 44 | 49 | 2.2 - 7.5 | 26 | 2.0 | 7.0 | 23 | 2.5 | 8.1 |
| 45-49 | 55 | 2.4 9.9 | 35 | 2.6 | 9.7 | 20 | 2.2 | 10.3 |
| 50-54 | 79 | 3.5 13.4 | 51 | 3.8 | 13.5 | 28 | 3.0 | 13.3 |
| 55-59 | 143 | 6.4 19.8 | 84 | 6.3 | 19.8 | 59 | 6.4 | 19.7 |
| 60-64 | 237 | 10.5 30.3 | 147 | 11.1 | 30.9 | 90 | 9.8 | 29.5 |
| 65-69 | 352 | 15.7 46.0 | 244 | 18.4 | 49.3 | 108 | 11.7 | 41.2 |
| 70-74 | 362 | 16.1 62.1 | 239 | 18.0 | 67.3 | 123 | 13.3 | 54.6 |
| 75-79 | 346 | 15.4 77.5 | 187 | 14.1 | 81.4 | 159 | 17.2 | 71.8 |
| 80-84 | 287 | 12.8 90.3 | 143 | 10.8 | 92.2 | 144 | 15.6 | 87.4 |
| 85+ | 219 | 9.7 100.0 | 103 | 7.8 | 100.0 | 116 | 12.6 | 100.0 |
| | | | | | | | | |
| All ages | 2248 | 100.0 | 1326 | 100.0 | | 922 | 100.0 | |

Included in the statistics are 28.0% multiple primaries in males and 30.3% in females.

Table 14

Age-specific mortality (cancer-related) and proportion of all cancers for period 1998-2012 (incl. multiple primaries)

| | | | Males | | Females | | Males | Females |
|-------------|-------|---------|---------|----------|---------|----------|----------|----------|
| Age at | | | Age- | | Age- | | Prop.all | Prop.all |
| death | Males | Females | _ / | | spec. | | cancers | cancers |
| Years | n | n | mortal. | MI-index | mortal. | MI-index | % | % |
| | | | | | | | | |
| 0 - 4 | 7 | 2 | 0.5 | | 0.2 | 0.08 | 22.6 | 8.7 |
| 5- 9 | 5 | 6 | 0.4 | | 0.5 | 0.75 | 14.3 | 15.4 |
| 10-14 | 3 | 2 | 0.2 | | 0.1 | 0.17 | 9.1 | 7.1 |
| 15-19 | 3 | 5 | 0.2 | | 0.4 | | 7.1 | 14.7 |
| 20-24 | 6 | 8 | 0.4 | | 0.5 | | 7.2 | 17.0 |
| 25-29 | 11 | 9 | 0.6 | | 0.5 | | 11.5 | 8.3 |
| 30-34 | 14 | 9 < | 0.7 | | 0.4 | | 8.0 | 4.2 |
| 35-39 | 18 | 11 | 0.8 | 0.26 | 0.5 | 0.26 | 4.7 | 2.2 |
| 40-44 | 26 | 23 | 1.1 | 0.38 | 1.0 | 0.33 | 3.2 | 2.1 |
| 45-49 | 35 | 20 | 1.6 | 0.51 | 0.9 | 0.30 | 2.1 | 1.1 |
| 50-54 | 51 | 28 | 2.8 | 0.47 | 1.5 | 0.32 | 1.7 | 1.0 |
| 55-59 | 84 | 59 | 4.9 | 0.52 | 3.3 | 0.42 | 1.5 | 1.3 |
| 60-64 | 147 | 90 | 8.9 | 0.63 | 5.2 | 0.55 | 1.8 | 1.5 |
| 65-69 | 244 | 108 | 16.6 | 0.73 | 6.7 | 0.51 | 2.2 | 1.4 |
| 70-74 | 239 | 123 | 20.6 | 0.71 | 8.9 | 0.59 | 1.9 | 1.4 |
| 75-79 | 187 | 159 | 24.8 | 0.80 | 14.5 | 0.78 | 1.5 | 1.6 |
| 80-84 | 143 | 144 | 31.5 | 0.87 | 16.7 | 0.82 | 1.4 | 1.4 |
| 85+ | 103 | 116 | 33.2 | | 14.2 | 0.90 | 1.3 | 0.9 |
| | | | | | | | | |
| All ages | 1326 | 922 | | | | | 1.8 | 1.4 |
| 5 | | | | | | | | |
| Mortality | | | | | | | | |
| Raw | | | 4.8 | 0.64 | 3.2 | 0.56 | | |
| WS | | | 2.6 | | 1.5 | | | |
| ES | | | 3.8 | | 2.0 | | | |
| BRD-S | | | 4.9 | | 2.6 | 0.54 | | |
| | | | | | | | | |
| PYLL-70 | | | | | | | | |
| per 100,000 | | | 32.8 | | 22.8 | | | |
| ES | | | 31.4 | | 22.0 | | | |
| AYLL-70 | | | 12.4 | | 14.7 | | | |
| | | | | | | | | |

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

base_C4549E.pdf

Table 15a

Multiple primaries in deaths in period 1998-2012

MALES

| | | | | | Syn- chron | Syn- chron | | |
|----------------------|-------|-------|-----|------------|---------------|---------------|------|------------|
| | Total | Total | Pre | Pre | ±30d | ±30d | Post | Post |
| Diagnosis | n / | %↓ | n | ∠ % | n | ← % | n | ← % |
| 3 | | | | | | | | |
| C09-C10 Oropharynx | 7 | 1.7 | 3 | 42.9 | 1 | 14.3 | 3 | 42.9 |
| C15 Oesophagus | 6 | 1.5 | 1 | 16.7 | | | 5 | 83.3 |
| C16 Stomach | 12 | 3.0 | 9 | 75.0 | 1 | 8.3 | 2 | 16.7 |
| C18 Colon | 26 | 6.5 | 21 | 80.8 | 3 | 11.5 | 2 | 7.7 |
| C19-C20 Rectum | 22 | 5.5 | 17 | 77.3 | 1 | 4.5 | 4 | 18.2 |
| C22 Liver | 4 / | 1.0 | 1 | 25.0 | 3 | 75.0 | | |
| C25 Pancreas | 5 4 | 1.2 | 1 | 20.0 | 3 | 60.0 | 1 | 20.0 |
| C33-C34 Lung | 32 | 7.9 | 8 | 25.0 | 6 | 18.8 | 18 | 56.3 |
| C38,C45 Mesothelioma | 4 | 1.0 | | | | | 4 | 100.0 |
| C43 Malign. melanoma | 29 | 7.2 | 22 | 75.9 | 1 | 3.4 | 6 | 20.7 |
| C44 Skin others | 36 | 8.9 | 20 | 55.6 | | | 16 | 44.4 |
| C46,C49 Soft tissue | 6 | 1.5 | | | 1 | 16.7 | 5 | 83.3 |
| C61 Prostate | 71 | 17.6 | 51 | 71.8 | 4 | 5.6 | 16 | 22.5 |
| C62 Testis | 7 | 1.7 | 5 | 71.4 | | | 2 | 28.6 |
| C64 Kidney | 21 | 5.2 | 13 | 61.9 | 3 | 14.3 | 5 | 23.8 |
| C67 Bladder | 25 | 6.2 | 16 | 64.0 | _ 2 | 8.0 | 7 | 28.0 |
| C70-C72 CNS cancer | 9 | 2.2 | | | 2 | 22.2 | 7 | 77.8 |
| C76-C79 CUP | 6 | 1.5 | 4 | 66.7 | 1 | 16.7 | 1 | 16.7 |
| C82-C85 NHL | 25 | 6.2 | 11 | 44.0 | 4 | 16.0 | 10 | 40.0 |
| C90 Mult. myeloma | 6 | 1.5 | 3 | 50.0 | 2 | 33.3 | 1 | 16.7 |
| C91-C96 Leukaemia | 11 | 2.7 | 6 | 54.5 | 2 | 18.2 | 3 | 27.3 |
| | | | | | | | | |
| Other primaries | 33 | 8.2 | 19 | 57.6 | 1 | 3.0 | 13 | 39.4 |
| | | | | | / | | | |
| All mult. primaries | 403 | 100.0 | 231 | 57.3 | 41 | 10.2 | 131 | 32.5 |

Multiple primaries with number of cases n<4 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 1998-2012
FEMALES

| | | | | | Syn- chron | Syn- chron | | |
|---------------------|-----------|-------|-----|-----------|---------------|---------------|------|------------|
| | Total | Total | Pre | Pre | ±30d | ±30d | Post | Post |
| Diagnosis | n / | %↓ | n | ←% | n | ~ % | n | ← % |
| | | | | | | | | |
| C16 Stomach | 5 | 1.5 | 4 | 80.0 | | | 1 | 20.0 |
| C18 Colon | 20 | 5.9 | 10 | 50.0 | 3 | 15.0 | 7 | 35.0 |
| C19-C20 Rectum | / 4 | 1.2 | 1 | 25.0 | 1 | 25.0 | 2 | 50.0 |
| C25 Pancreas | / 6 | 1.8 | | | 2 | 33.3 | 4 | 66.7 |
| C33-C34 Lung | 12 | 3.6 | 3 | 25.0 | 1 | 8.3 | 8 | 66.7 |
| C43 Malign. melanom | na / 18 / | 5.3 | 13 | 72.2 | 2 | 11.1 | 3 | 16.7 |
| C44 Skin others | / 17 | 5.0 | 7 | 41.2 | 4 | 23.5 | 6 | 35.3 |
| C46,C49 Soft tissue | 5 | 1.5 | | | / 1 | 20.0 | 4 | 80.0 |
| C48 Peritoneal | 3 | 0.9 | | | _ 1 | 33.3 | 2 | 66.7 |
| C50 Breast | 94 | 27.8 | 72 | 76.6 | 3 | 3.2 | 19 | 20.2 |
| C53 Cervix uteri | 10 | 3.0 | 10 | 100.0 | | | | |
| C54 Corpus uteri | 19 | 5.6 | 9 | 47.4 | 6 | 31.6 | 4 | 21.1 |
| C56 Ovary | 54 | 16.0 | 13 | 24.1 | 10 | 18.5 | 31 | 57.4 |
| C64 Kidney | 7 | 2.1 | 2 | 28.6 | 1 | 14.3 | 4 | 57.1 |
| C67 Bladder | 7 | 2.1 | 5 | 71.4 | | | 2 | 28.6 |
| C70-C72 CNS cancer | 7 | 2.1 | | | _ 1 | 14.3 | 6 | 85.7 |
| C73 Thyroid | 5 | 1.5 | 5 | 100.0 | | | | |
| C82-C85 NHL | 17 | 5.0 | 10 | 58.8 | 5 | 29.4 | 2 | 11.8 |
| C90 Mult. myeloma | 3 | 0.9 | 2 | 66.7 | | | 1 | 33.3 |
| C91-C96 Leukaemia | 6 | 1.8 | 2 | 33.3 | | | 4 | 66.7 |
| | | | | | | | | |
| Other primaries | 19 | 5.6 | 9 | 47.4 | 3 | 15.8 | 7 | 36.8 |
| All mult. primaries | 338 | 100.0 | 177 | 52.4 | 44 | 13.0 | 117 | 34.6 |

Multiple primaries with number of cases n<3 are pooled in category "Other primaries".

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

Table 16

Age-specific mortality (cancer-related) and proportion of all cancers for period 1998-2012

(Singular primaries only *)

| 700 25 | | | Males Age- | | Females Age- | | Males | Females Prop.all |
|-----------------|-------|---------|---------------|-------------|--------------|-------------|---------|---------------------|
| Age at death | Males | Females | spec. | | spec. | | cancers | cancers |
| Years | n | n | | MT-index | | MI-index | | 8 |
| ICALD | | | morear. | 111 1110011 | mor car. | 111 1114611 | Ŭ | Ü |
| 0- 4 | 7 | 2 | 0.5 | 0.15 | 0.2 | 0.08 | 26.9 | 8.7 |
| 5- 9 | 5 | 6 | 0.4 | | 0.5 | | 15.2 | 16.7 |
| 10-14 | 3 | 1 | 0.2 | 0.30 | 0.1 | 0.09 | 9.1 | 3.8 |
| 15-19 | 3 | 5 | 0.2 | 0.21 | 0.4 | 0.38 | 7.7 | 16.1 |
| 20-24 | 5 | 7 / | 0.3 | 0.31 | 0.4 | 0.50 | 6.4 | 16.3 |
| 25-29 | 11 | 9 / | 0.6 | 0.46 | 0.5 | 0.32 | 12.2 | 8.7 |
| 30-34 | 13 | 8 < | 0.6 | 0.27 | 0.4 | | 7.6 | 4.3 |
| 35-39 | 17 | 8 | 0.7 | | 0.4 | | 4.7 | 1.8 |
| 40-44 | 24 | 20 | 1.0 | | 0.9 | | 3.2 | 2.1 |
| 45-49 | 32 | 18 | 1.5 | 0.51 | 0.9 | | 2.1 | 1.1 |
| 50-54 | 41 | 25 | 2.2 | | 1.3 | | 1.5 | 1.0 |
| 55-59 | 74 | 48 | 4.4 | | 2.7 | | 1.5 | 1.3 |
| 60-64 | 124 | 74 | 7.5 | 0.63 | 4.3 | | 1.8 | 1.5 |
| 65-69 | 203 | 84 | 13.8 | | 5.2 | | 2.2 | 1.3 |
| 70-74 | 187 | 95 | 16.1 | | 6.9 | | 1.9 | 1.3 |
| 75-79 | 142 | 120 | 18.8 | 0.84 | 11.0 | | 1.5 | 1.5 |
| 80-84 | 110 | 115 | 24.2 | | 13.3 | | 1.5 | 1.4 |
| 85+ | 79 | 91 | 25.5 | 0.82 | 11.1 | 0.88 | 1.3 | 0.9 |
| | | | | | | | | |
| All ages | 1080 | 736 | | | | | 1.8 | 1.4 |
| | | | | | | | | |
| Mortality | | | | 0. 60 | | | | |
| Raw | | | 3.9 | | 2.6 | | | |
| WS | | | 2.2 | | 1.2 | | | |
| ES | | | 3.1 | | 1.7 | | | |
| BRD-S | | | 4.0 | 0.64 | 2.1 | 0.53 | | |
| PYLL-70 | | | | | | | | |
| per 100,000 | | | 29.5 | | 19.8 | | | |
| ES | | | 28.4 | | 19.3 | | | |
| AYLL-70 | | | 13.0 | | 15.4 | | | |
| | | | | | | | | |

^{*} See corresponding tables with multiple primaries.

Table 17

Age-specific mortality (cancer-related) and proportion of all cancers for period 1998-2012

(Single primaries only *)

| | | | Males | | Females | | Males | Females |
|-------------|-----|---------|---------|----------|---------|----------|---------|----------|
| Age at | | | Age- | | Age- | | | Prop.all |
| death | | Females | _ / | | spec. | | cancers | cancers |
| Years | n | n | mortal. | MI-index | mortal. | MI-index | % | % |
| | | | | | | | | |
| 0 - 4 | 7 | 2 | 0.5 | | 0.2 | | 28.0 | 8.7 |
| 5- 9 | 5 | 6 | 0.4 | | 0.5 | | 15.6 | 17.1 |
| 10-14 | 3 | 1 | 0.2 | | 0.1 | | 9.1 | 4.2 |
| 15-19 | 3 | 5 | 0.2 | | 0.4 | | 7.7 | 19.2 |
| 20-24 | 5 | 6 | 0.3 | | 0.4 | | 6.8 | 15.0 |
| 25-29 | 11 | 9 | 0.6 | | 0.5 | | 13.1 | 9.3 |
| 30-34 | 13 | 8 < | 0.6 | | 0.4 | | 7.8 | 4.7 |
| 35-39 | 15 | 8 | 0.6 | | 0.4 | | 4.4 | 1.9 |
| 40-44 | 22 | 19 | 0.9 | 0.39 | 0.8 | 0.32 | 3.1 | 2.2 |
| 45-49 | 30 | 18 | 1.4 | 0.50 | 0.9 | 0.32 | 2.1 | 1.2 |
| 50-54 | 39 | 23 | 2.1 | 0.46 | 1.2 | | 1.6 | 1.1 |
| 55-59 | 68 | 45 | 4.0 | 0.49 | 2.5 | 0.44 | 1.6 | 1.3 |
| 60-64 | 122 | 68 | 7.4 | 0.67 | 3.9 | 0.55 | 2.0 | 1.6 |
| 65-69 | 191 | 73 | 13.0 | 0.76 | 4.6 | 0.49 | 2.4 | 1.4 |
| 70-74 | 168 | 77/ | 14.5 | 0.71 | 5.6 | 0.52 | 2.0 | 1.3 |
| 75-79 | 130 | 108 | 17.3 | 0.84 | 9.9 | 0.81 | 1.7 | 1.6 |
| 80-84 | 96 | 102 | 21.1 | 0.82 | 11.8 | 0.78 | 1.6 | 1.5 |
| 85+ | 70 | 84 | 22.6 | 0.79 | 10.3 | 0.83 | 1.4 | 1.0 |
| | | | | | | | | |
| All ages | 998 | 662 | | | | | 2.0 | 1.4 |
| | | | | | | | | |
| Mortality | | | | | | | | |
| Raw | | | 3.6 | 0.62 | 2.3 | 0.53 | | |
| WS | | | 2.1 | 0.53 | 1.1 | 0.42 | | |
| ES | | | 2.9 | | 1.5 | | | |
| BRD-S | | | 3.7 | | 1.9 | 0.51 | | |
| | | | | | | | | |
| PYLL-70 | | | | | | | | |
| per 100,000 | | | 28.3 | | 18.9 | | | |
| ES | | | 27.3 | | 18.5 | | | |
| AYLL-70 | | | 13.1 | | 16.0 | | | |
| | | | | | | | | |

^{*} See corresponding tables with multiple primaries.

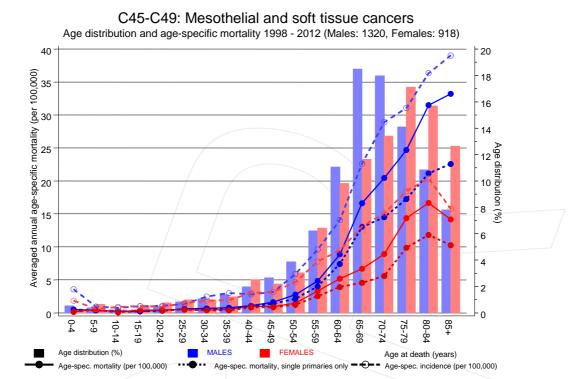
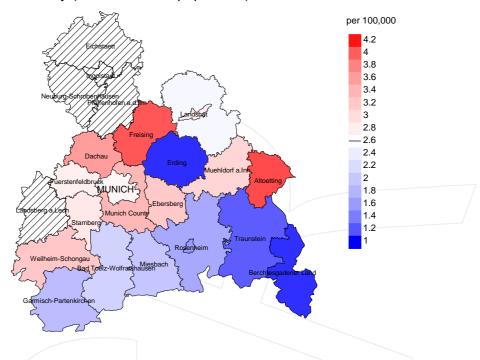


Figure 18. Distribution of age at death (bars) and age-specific mortality (all patients: solid line, patients with single primaries: dotted line). The age-specific incidence is additionally plotted for comparison (dashed line).

The difference between age at diagnosis (Table 3) and age at mesoth, and soft tissue ca.-related death (see Table 10) should be considered.



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



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

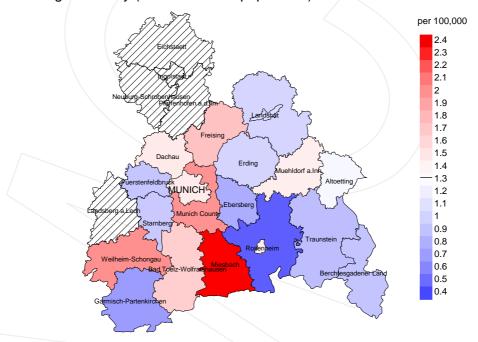
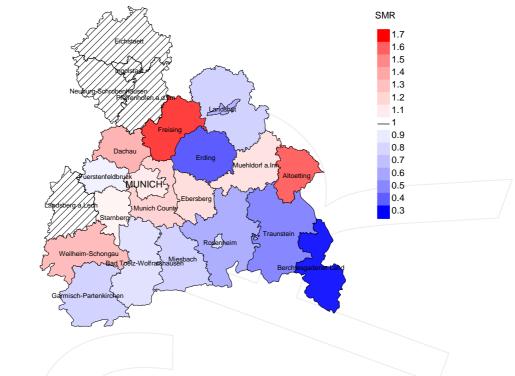


Figure 19a. Map of cancer mortality (world standard population) by county averaged for period 2003 to 2008. According to their individual mortality rates, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population mean (males 2.6/100,000 WS N=541, females 1.3/100,000 WS N=352). Since cancer data are not available in some counties until 2007, the local mortality rates were not calculated, and the map tiles show as shaded.

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 63,131 female residents (averaged) in the period from 2003 to 2008 a total of 6 women died from mesoth. and soft tissue ca.. Therefore, the mean mortality rate for this cancer type in this area can be calculated at 0.8/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 0.1 and 3.4/100,000.

Standardized mortality ratio (SMR) 2003 - 2008: Males



Standardized mortality ratio (SMR) 2003 - 2008: Females

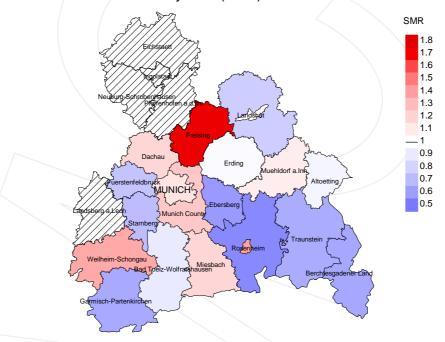


Figure 19b. Map of standardized mortality ratio (SMR, incl. DCO cases) by county averaged for period 2003 to 2008. According to their individual SMR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (males N=541, females N=352). Since cancer data are not available in some counties until 2007, the local SMR values were not calculated, and the map tiles show as shaded.

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 63,131 female residents (averaged) in the period from 2003 to 2008 a total of 6 women died from mesoth. and soft tissue ca.. Therefore, the mean standardized mortality ratio (SMR) for this cancer type in this area can be calculated at 0.59. Though, the value of this parameter may vary with an underlying probability of 99% between 0.15 and 1.53, and is therefore not statistically striking.

Statistical Notes

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

1. All multiple primaries included

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

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

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

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

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

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

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

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

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

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

Shortcuts

AYLL-70 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) FRG Federal Republic of Germany

GEKID Association of Population-based Cancer Registries in Germany

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

LCL Lower confidence limit

MI-index Ratio between mortality and incidence

MCR Munich Cancer Registry (Tumorregister München)

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

SEER Surveillance, Epidemiology, and End Results (USA)

SIR Standardized incidence ratio
SMR Standardized mortality ratio
UCL Upper confidence limit
WS World standard population

Recommended Citation

Munich Cancer Registry. Baseline statistics C45-C49: Mesoth. and soft tissue ca. [Internet]. 2014 [updated 2014 Mar 20; cited 2014 May 1]. Available from: http://www.tumorregister-muenchen.de/en/facts/base/base_C4549E.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.

Index of figures and tables

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