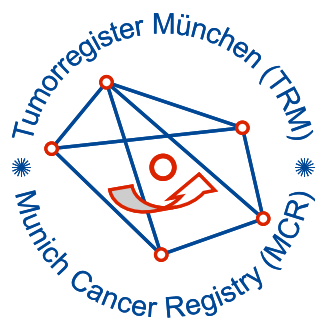


Munich Cancer Registry



- ▶ Incidence and Mortality
- ▶ Selection Matrix
- ▶ Homepage
- ▶ *Deutsch*

ICD-10 C01, C05, C09-10: Oropharynx cancer

Survival

| | | |
|-------------------|------------|-----------|
| Year of diagnosis | 1988-1997 | 1998-2016 |
| Patients | 821 | 3,260 |
| Diseases | 822 | 3,291 |
| Cases evaluated | 726 | 2,542 |
| Creation date | 08/22/2018 | |
| Export date | 08/09/2018 | |
| Population | 4.81 m | |



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

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

<https://www.tumorregister-muenchen.de/en/facts/surv/sC0910E-ICD-10-C01-C05-C09-10-Oropharynx-cancer-survival.pdf>

Index of figures and tables

| Fig./Tbl. | | Page |
|-----------|---|------|
| 1a | Relative survival by period of diagnosis (chart) | 3 |
| 1b | Survival by period of diagnosis (table) | 3 |
| 2a | Survival by sex (chart) | 4 |
| 2b | Survival by sex (table) | 4 |
| 3a | Observed survival by age category (chart) | 5 |
| 3b | Relative survival by age category (chart) | 5 |
| 3c | Survival by age category (table) | 6 |
| 4a | Relative survival by TNM staging 1988+ (chart) | 7 |
| 4b | Survival by TNM staging 1988+ (table) | 7 |
| 4c | Relative survival by TNM staging 1998+ (chart) | 8 |
| 4d | Survival by TNM staging 1998+ (table) | 8 |
| 4e | Conditional survival by extent of disease (chart) | 9 |
| 4f | Conditional survival by extent of disease (table) | 9 |
| 5a | Time to first progression (chart) | 10 |
| 5b | Time to first progression (table) | 10 |
| 5c | Observed post-progression survival (chart) | 12 |
| 5d | Observed post-progression survival (table) | 12 |
| 5e | Observed post-progression survival by period of progression (chart) | 13 |
| 5f | Observed post-progression survival by period of progression (table) | 13 |

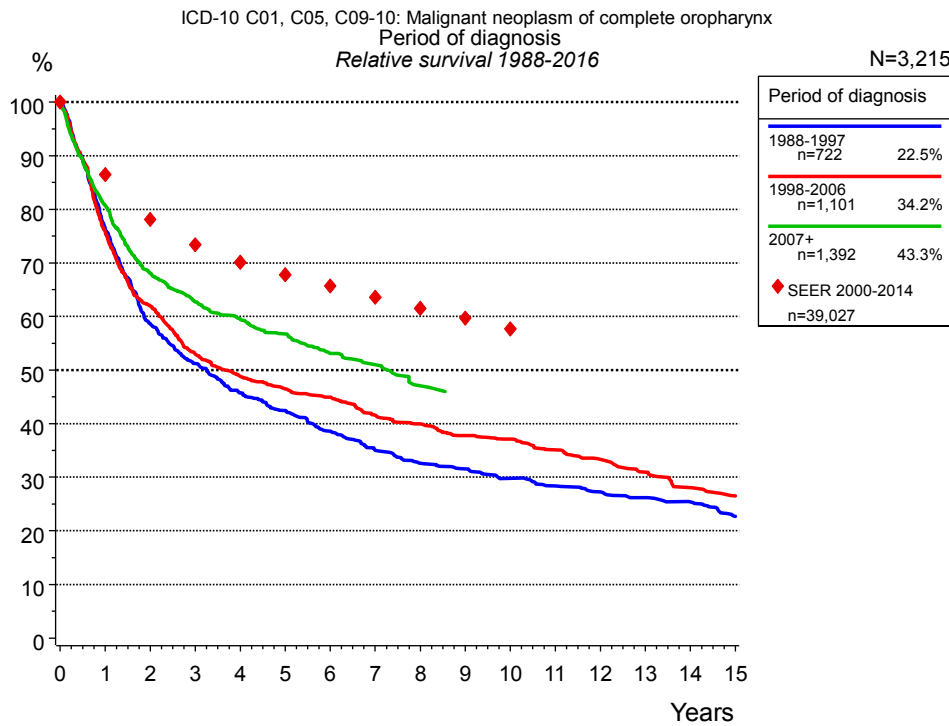


Figure 1a. Relative survival of patients with oropharynx cancer by period of diagnosis. Included in the evaluation are 3,215 cases diagnosed between 1988 and 2016.

The survival results of the SEER program (Surveillance, Epidemiology, and End Results) of the American National Cancer Institute (NCI) are summarized as the period of diagnosis from 2000 to 2014, and are represented by colored diamonds in order to facilitate comparisons between MCR and SEER.

The presented survival curves are derived from clinical records with valid follow-up informations, which means that death certificate cases (DCO) cases are omitted from the analysis. With this one restriction, the MCR has provided population-based statistics since 1998, collecting data on all cancer cases in the region of southern Bavaria. Historical data of previous time periods can be heavily selected, therefore, univariate survival comparisons of the presented time periods must be carefully considered. Nonetheless, all calculable survival curves are depicted to facilitate the comparison of long time follow-up analyses of relative survival between particular cancers.

| Years | Period of diagnosis | | | | | |
|-------|---------------------|--------|----------------------|--------|------------------|--------|
| | 1988-1997 n=722 | | 1998-2006 n=1,101 | | 2007+ n=1,392 | |
| | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 75.2 | 76.2 | 74.6 | 75.7 | 79.4 | 80.7 |
| 2 | 57.0 | 58.7 | 60.2 | 61.9 | 65.9 | 68.0 |
| 3 | 49.0 | 51.2 | 50.8 | 53.0 | 59.8 | 62.7 |
| 4 | 43.0 | 45.7 | 46.2 | 48.8 | 56.0 | 59.5 |
| 5 | 39.4 | 42.4 | 43.3 | 46.5 | 52.4 | 56.7 |
| 6 | 35.3 | 38.5 | 41.3 | 44.9 | 48.1 | 53.1 |
| 7 | 31.4 | 35.0 | 37.5 | 41.6 | 45.4 | 51.0 |
| 8 | 28.9 | 32.6 | 35.5 | 40.0 | 41.4 | 47.1 |
| 9 | 27.5 | 31.5 | 33.0 | 37.8 | | |
| 10 | 25.5 | 29.8 | 31.9 | 37.2 | | |
| 11 | 24.0 | 28.4 | 29.5 | 35.1 | | |
| 12 | 22.6 | 27.2 | 27.5 | 33.4 | | |
| 13 | 21.3 | 26.2 | 25.0 | 30.9 | | |
| 14 | 20.2 | 25.4 | 22.4 | 28.1 | | |
| 15 | 17.6 | 22.7 | 20.4 | 26.5 | | |

Table 1b. Observed (obs.) and relative (rel.) survival of patients with oropharynx cancer by period of diagnosis for period 1988-2016 (N=3,215).

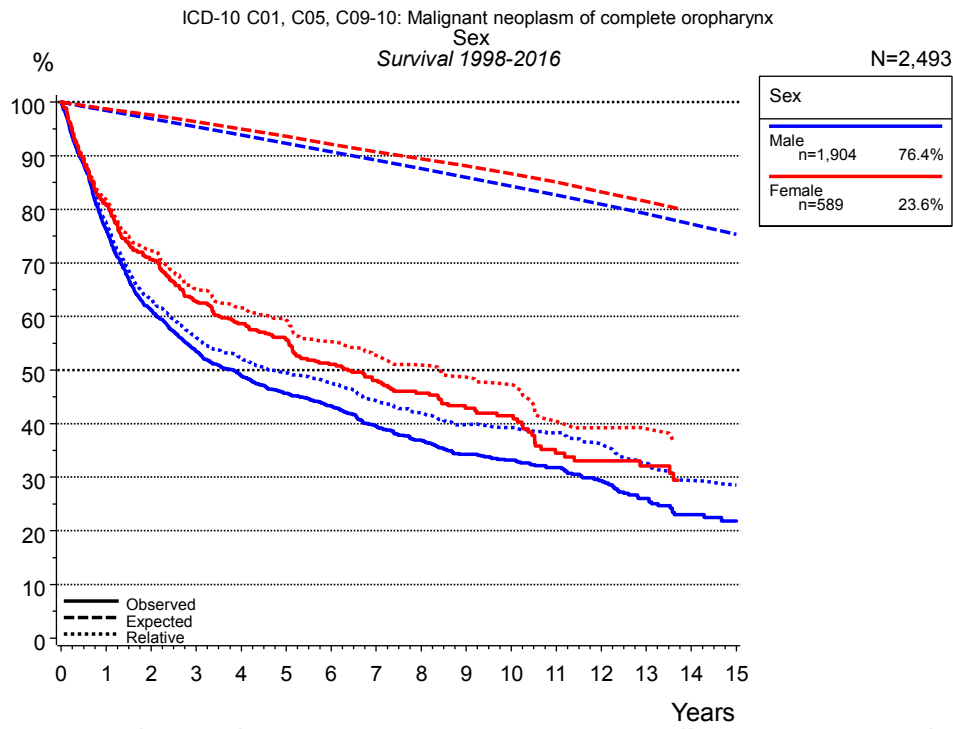


Figure 2a. Survival of patients with oropharynx cancer by sex. Included in the evaluation are 2,493 cases diagnosed between 1998 and 2016.

| Years | Sex | | | |
|-------|-----------------|--------|-----------------|--------|
| | Male n=1,904 | | Female n=589 | |
| | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 76.2 | 77.4 | 80.8 | 81.8 |
| 2 | 61.2 | 63.1 | 70.6 | 72.3 |
| 3 | 53.4 | 56.0 | 62.7 | 65.1 |
| 4 | 49.0 | 52.2 | 58.6 | 61.6 |
| 5 | 45.7 | 49.4 | 55.6 | 59.3 |
| 6 | 43.3 | 47.7 | 51.1 | 55.3 |
| 7 | 39.4 | 44.2 | 48.1 | 52.7 |
| 8 | 36.9 | 42.0 | 45.7 | 50.9 |
| 9 | 34.3 | 39.8 | 42.9 | 48.6 |
| 10 | 33.2 | 39.3 | 41.5 | 47.3 |
| 11 | 31.8 | 38.3 | 34.5 | 40.5 |
| 12 | 29.4 | 36.1 | 33.0 | 39.2 |
| 13 | 26.1 | 32.6 | 32.1 | 39.1 |
| 14 | 23.1 | 29.4 | | |
| 15 | 21.9 | 28.5 | | |

Table 2b. Observed (obs.) and relative (rel.) survival of patients with oropharynx cancer by sex for period 1998-2016 (N=2,493).

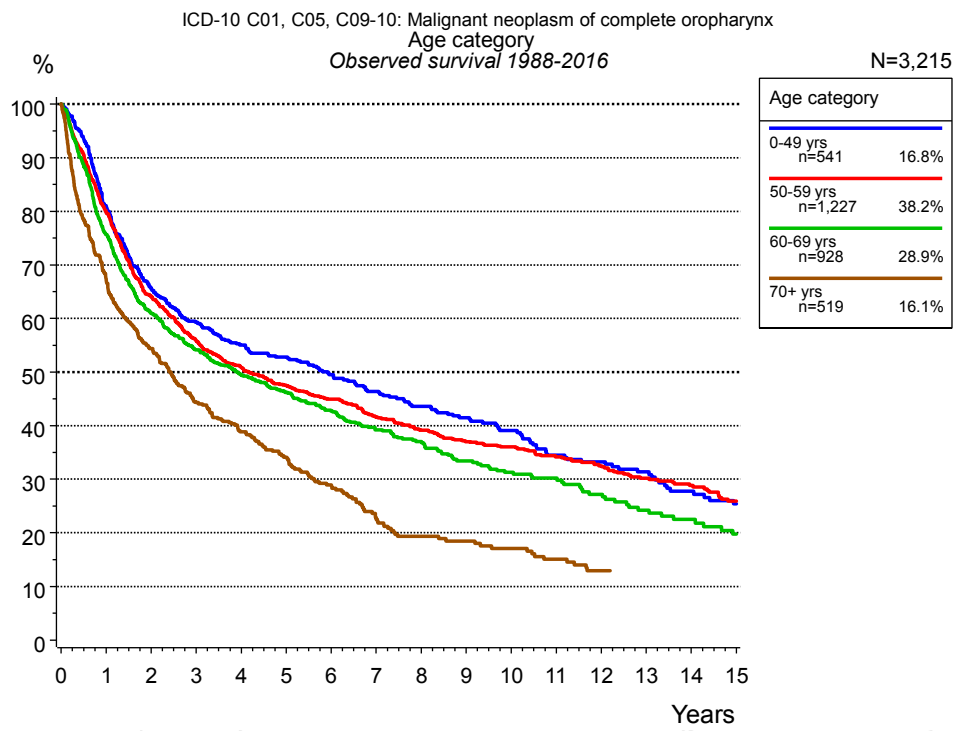


Figure 3a. Observed survival of patients with oropharynx cancer by age category. Included in the evaluation are 3,215 cases diagnosed between 1988 and 2016.

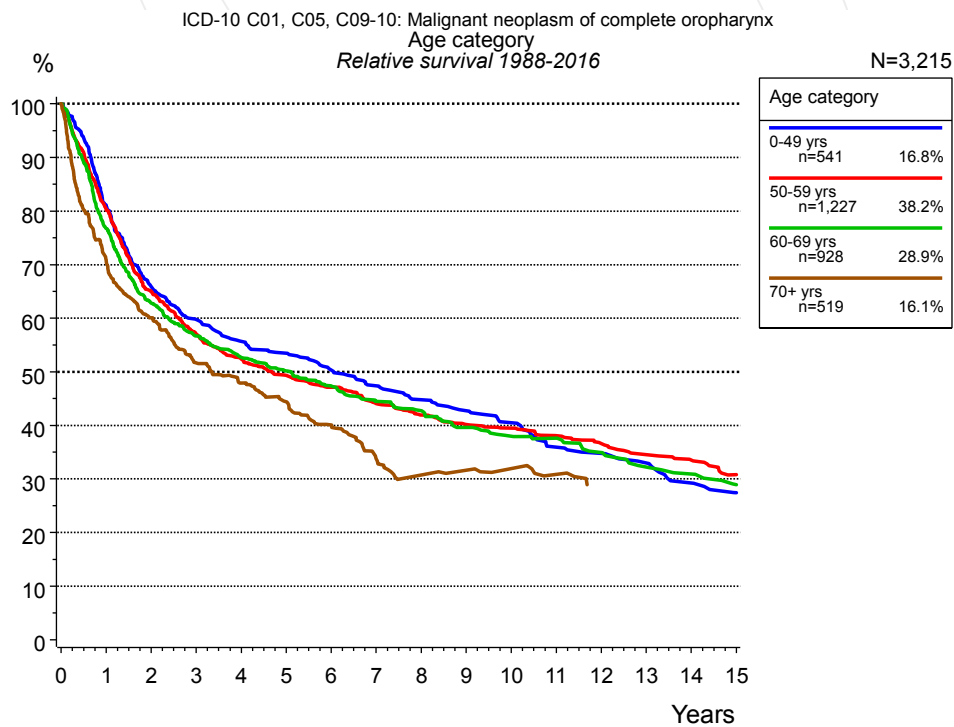


Figure 3b. Relative survival of patients with oropharynx cancer by age category. Included in the evaluation are 3,215 cases diagnosed between 1988 and 2016.

| Years | Age category | | | | | | | |
|-------|-------------------|--------|----------------------|--------|--------------------|--------|------------------|--------|
| | 0-49 yrs n=541 | | 50-59 yrs n=1,227 | | 60-69 yrs n=928 | | 70+ yrs n=519 | |
| | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 80.9 | 81.0 | 79.8 | 80.4 | 75.6 | 76.7 | 67.4 | 70.8 |
| 2 | 65.6 | 65.9 | 64.1 | 64.9 | 61.0 | 62.8 | 54.4 | 60.0 |
| 3 | 59.3 | 59.7 | 55.8 | 57.0 | 54.1 | 56.7 | 44.3 | 51.7 |
| 4 | 55.0 | 55.7 | 50.9 | 52.4 | 49.5 | 52.7 | 38.8 | 47.9 |
| 5 | 52.8 | 53.4 | 47.5 | 49.3 | 46.2 | 50.2 | 34.1 | 44.4 |
| 6 | 49.6 | 50.3 | 44.9 | 47.1 | 42.7 | 47.3 | 28.9 | 40.1 |
| 7 | 46.4 | 47.4 | 41.6 | 44.1 | 39.2 | 44.5 | 22.6 | 33.8 |
| 8 | 43.6 | 44.8 | 39.1 | 41.9 | 37.0 | 42.7 | 19.3 | 30.7 |
| 9 | 41.5 | 42.8 | 37.0 | 40.2 | 33.4 | 39.6 | 18.5 | 31.6 |
| 10 | 39.1 | 40.5 | 36.0 | 39.5 | 31.3 | 38.0 | 17.1 | 31.9 |
| 11 | 34.5 | 36.0 | 34.2 | 38.1 | 30.2 | 37.6 | 15.1 | 30.8 |
| 12 | 33.3 | 34.7 | 32.5 | 36.6 | 27.2 | 34.9 | 12.9 | 29.1 |
| 13 | 31.4 | 33.0 | 30.2 | 34.5 | 24.2 | 32.2 | | |
| 14 | 27.8 | 29.2 | 28.8 | 33.5 | 22.5 | 30.9 | | |
| 15 | 25.4 | 27.4 | 25.9 | 30.8 | 19.8 | 28.9 | | |

Table 3c. Observed (obs.) and relative (rel.) survival of patients with oropharynx cancer by age category for period 1988-2016 (N=3,215).

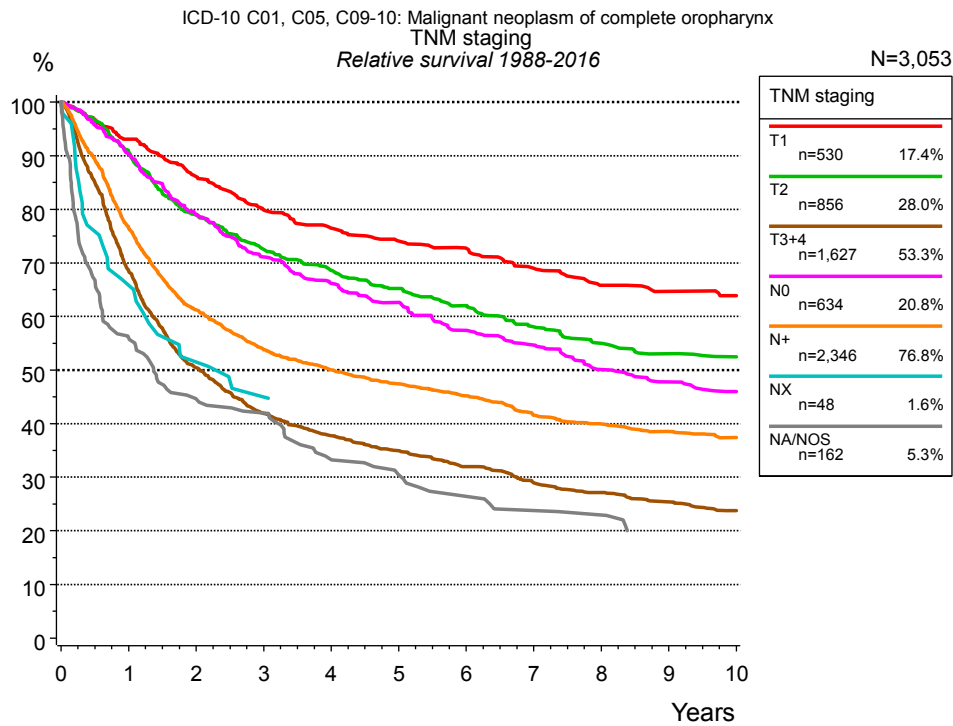


Figure 4a. Relative survival of patients with oropharynx cancer by TNM staging. For 3,068 of 3,215 cases diagnosed between 1988 and 2016 valid data could be obtained for this item. For a total of 3,053 cases an evaluable classification was established. The accumulated percentage exceeds the 100 % value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 162 patients with missing values regarding TNM staging (5.0 % of 3,215 patients, the percent values of all other categories are related to n=3,053).

| Years | TNM staging | | | | | | | | | | | | | |
|-------|-------------|--------|-------------|--------|-----------------|--------|-------------|--------|---------------|--------|------------|--------|-----------------|--------|
| | T1 n=530 | | T2 n=856 | | T3+4 n=1,627 | | N0 n=634 | | N+ n=2,346 | | NX n=48 | | NA/NOS n=162 | |
| | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 92.1 | 93.1 | 89.2 | 90.5 | 67.5 | 68.5 | 89.0 | 90.2 | 75.4 | 76.5 | 66.0 | 65.8 | 54.9 | 55.9 |
| 2 | 84.2 | 86.1 | 76.7 | 78.9 | 48.9 | 50.4 | 77.0 | 79.1 | 59.5 | 61.2 | 51.1 | 51.5 | 42.8 | 44.6 |
| 3 | 77.1 | 79.8 | 69.4 | 72.5 | 39.9 | 41.9 | 68.2 | 71.1 | 51.4 | 53.8 | 44.7 | 45.0 | 40.1 | 42.0 |
| 4 | 72.8 | 76.4 | 64.7 | 68.6 | 35.4 | 37.7 | 62.7 | 66.2 | 47.1 | 50.0 | | | 31.5 | 33.3 |
| 5 | 69.6 | 74.1 | 60.6 | 65.2 | 32.3 | 35.0 | 58.4 | 62.6 | 44.0 | 47.4 | | | 27.7 | 30.5 |
| 6 | 67.3 | 72.7 | 56.7 | 62.0 | 29.0 | 32.0 | 52.8 | 57.4 | 41.2 | 45.2 | | | 24.6 | 26.4 |
| 7 | 62.9 | 69.0 | 52.1 | 58.1 | 25.8 | 28.9 | 49.4 | 54.7 | 37.2 | 41.6 | | | 21.3 | 23.8 |
| 8 | 59.1 | 65.8 | 48.7 | 55.0 | 23.9 | 27.1 | 44.4 | 50.1 | 35.3 | 39.9 | | | 20.5 | 23.0 |
| 9 | 57.3 | 64.7 | 46.2 | 53.1 | 21.9 | 25.4 | 41.7 | 47.8 | 33.4 | 38.5 | | | | |
| 10 | 55.7 | 63.8 | 45.0 | 52.5 | 20.1 | 23.7 | 39.4 | 45.9 | 32.0 | 37.4 | | | | |

Table 4b. Observed (obs.) and relative (rel.) survival of patients with oropharynx cancer by TNM staging for period 1988-2016 (N=3,053).

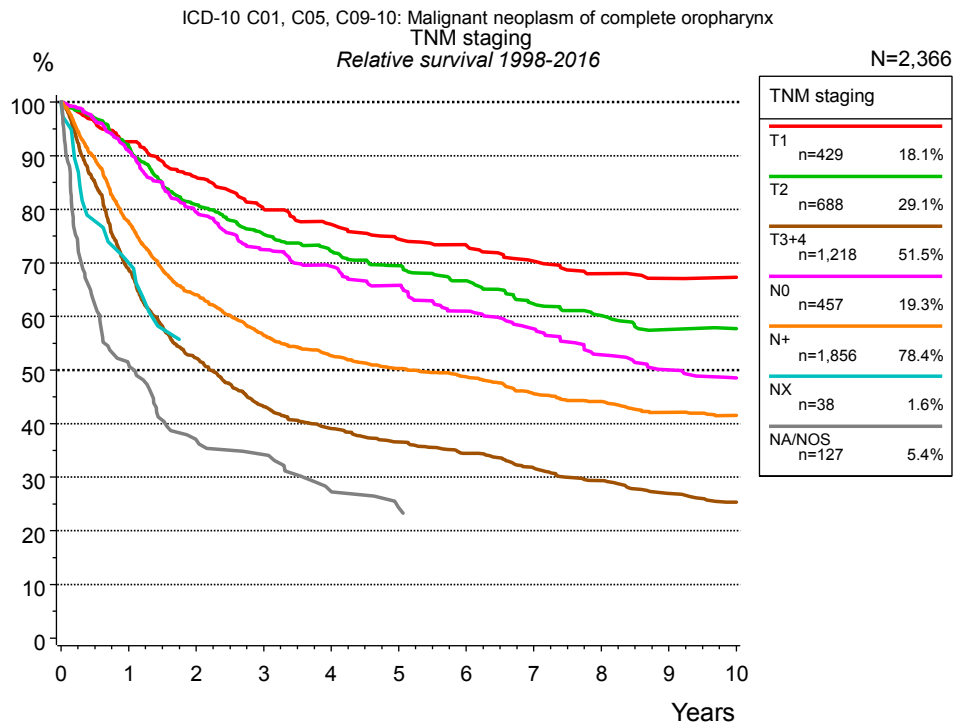


Figure 4c. Relative survival of patients with oropharynx cancer by TNM staging. For 2,380 of 2,493 cases diagnosed between 1998 and 2016 valid data could be obtained for this item. For a total of 2,366 cases an evaluable classification was established. The accumulated percentage exceeds the 100 % value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 127 patients with missing values regarding TNM staging (5.1 % of 2,493 patients, the percent values of all other categories are related to n=2,366).

| Years | TNM staging | | | | | | | | | | | | | |
|-------|-------------|--------|-------------|--------|-----------------|--------|-------------|--------|---------------|--------|------------|--------|-----------------|--------|
| | T1 n=429 | | T2 n=688 | | T3+4 n=1,218 | | N0 n=457 | | N+ n=1,856 | | NX n=38 | | NA/NOS n=127 | |
| | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 91.6 | 92.6 | 90.3 | 91.5 | 67.8 | 68.8 | 89.6 | 90.8 | 76.5 | 77.6 | 70.3 | 70.0 | 50.1 | 51.0 |
| 2 | 84.1 | 86.0 | 78.6 | 80.8 | 50.6 | 52.2 | 77.4 | 79.4 | 62.2 | 64.0 | | | 35.3 | 37.0 |
| 3 | 77.3 | 80.0 | 72.2 | 75.3 | 41.2 | 43.2 | 69.7 | 72.5 | 54.0 | 56.4 | | | 32.7 | 34.2 |
| 4 | 73.5 | 77.2 | 68.1 | 72.2 | 36.8 | 39.1 | 66.0 | 69.4 | 49.6 | 52.6 | | | 25.9 | 27.3 |
| 5 | 70.0 | 74.4 | 64.6 | 69.5 | 33.8 | 36.6 | 61.7 | 65.8 | 46.6 | 50.3 | | | 21.7 | 24.3 |
| 6 | 67.9 | 73.3 | 61.0 | 66.6 | 31.2 | 34.5 | 56.4 | 61.0 | 44.4 | 48.7 | | | | |
| 7 | 64.3 | 70.3 | 55.9 | 62.3 | 28.2 | 31.7 | 52.4 | 57.7 | 40.8 | 45.6 | | | | |
| 8 | 61.1 | 68.0 | 53.3 | 60.2 | 25.8 | 29.4 | 47.2 | 52.8 | 39.0 | 44.1 | | | | |
| 9 | 59.5 | 67.1 | 49.9 | 57.6 | 23.2 | 27.0 | 43.9 | 50.0 | 36.4 | 42.1 | | | | |
| 10 | 58.9 | 67.3 | 49.4 | 57.7 | 21.4 | 25.3 | 41.9 | 48.5 | 35.4 | 41.5 | | | | |

Table 4d. Observed (obs.) and relative (rel.) survival of patients with oropharynx cancer by TNM staging for period 1998-2016 (N=2,366).

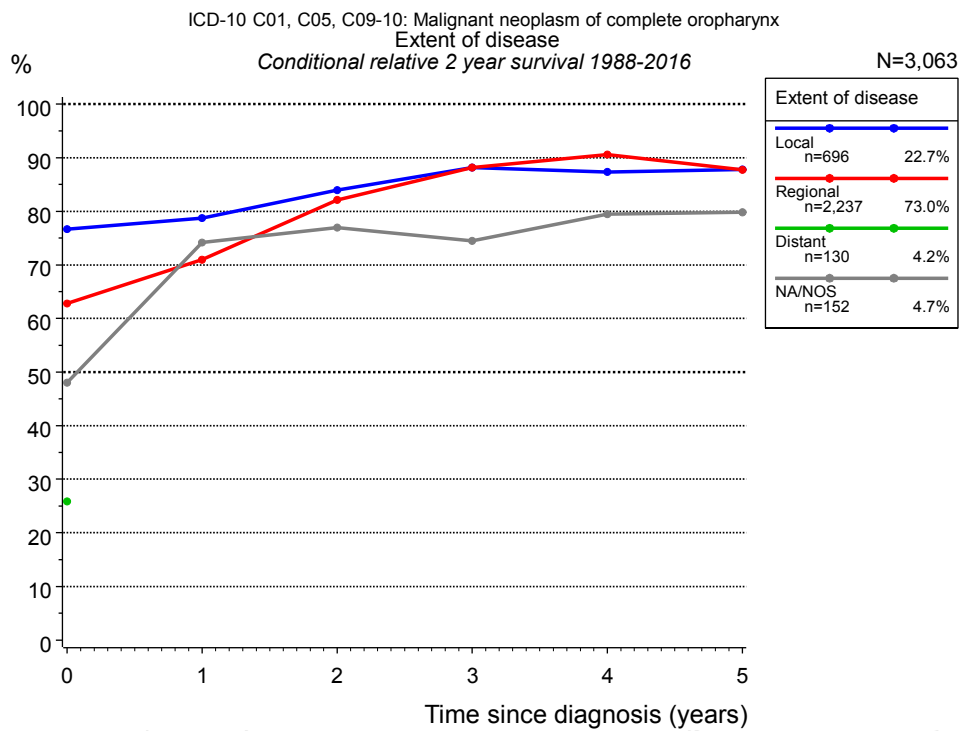


Figure 4e. Conditional relative 2-year survival of patients with oropharynx cancer by extent of disease. For 3,068 of 3,215 cases diagnosed between 1988 and 2016 valid data could be obtained for this item. For a total of 3,063 cases an evaluable classification was established. The grey line represents the subgroup of 152 patients with missing values regarding extent of disease (4.7 % of 3,215 patients, the percent values of all other categories are related to n=3,063).

| Years | Extent of disease | | | | | | | |
|-------|-------------------|---------------------|----------|---------------------|---------|---------------------|--------|---------------------|
| | Local | | Regional | | Distant | | NA/NOS | |
| | n | Cond. surv. % 2 yrs | n | Cond. surv. % 2 yrs | n | Cond. surv. % 2 yrs | n | Cond. surv. % 2 yrs |
| 0 | 696 | 76.7 | 2,237 | 62.8 | 130 | 25.9 | 152 | 48.1 |
| 1 | 579 | 78.8 | 1,659 | 71.0 | | | 84 | 74.2 |
| 2 | 481 | 83.9 | 1,248 | 82.1 | | | 64 | 77.0 |
| 3 | 409 | 88.2 | 998 | 88.2 | | | 57 | 74.5 |
| 4 | 353 | 87.3 | 838 | 90.6 | | | 44 | 79.4 |
| 5 | 308 | 87.8 | 710 | 87.7 | | | 39 | 79.8 |

Table 4f. Conditional relative 2-year survival of patients with oropharynx cancer by extent of disease for period 1988-2016 (N=3,063).

Conditional relative survival rates refer to the relative survival probability, in this case for 2 years after cancer diagnosis, compared to the age- and sex-matched population (=100 %) under the condition of being alive for a certain time period (x-axis in Figure 4c). The results illustrate to what extent the cancer induced mortality of particular subgroups declines in the subsequent years after detection of the malignancy. For instance, according to the presented survival statistics, patients in the subgroup extent of disease="Local", who are alive at least 3 years after cancer diagnosis, the conditional relative 2-year survival rate is 88.2% (n=409).

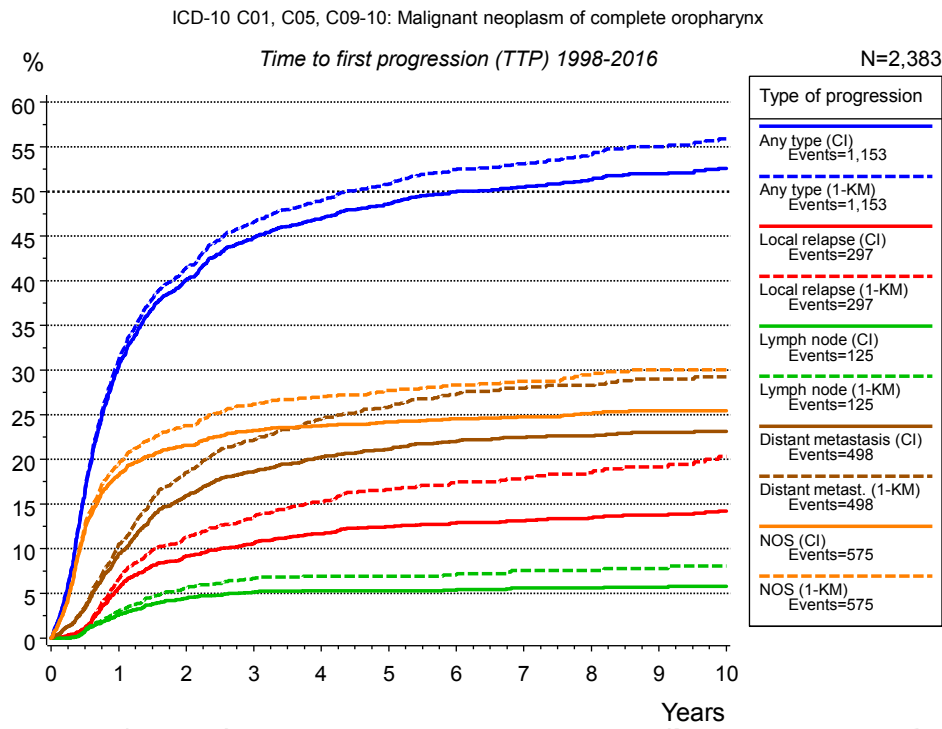


Figure 5a. Time to first progression of 2,383 patients with oropharynx cancer diagnosed between 1998 and 2016 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

| Years | Type of progression | | | | | | | Distant metastasis (CI) n=2,383 % |
|-------|---------------------|-----------------|--------------------|----------------------|-----------------|-------------------|------|---|
| | Any type (CI) | Any type (1-KM) | Local relapse (CI) | Local relapse (1-KM) | Lymph node (CI) | Lymph node (1-KM) | | |
| | n=2,383 % | n=2,383 % | n=2,383 % | n=2,383 % | n=2,383 % | n=2,383 % | | |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1 | 30.4 | 31.1 | 5.6 | 6.6 | 2.6 | 3.0 | 9.5 | |
| 2 | 40.1 | 41.4 | 9.2 | 11.4 | 4.4 | 5.5 | 15.9 | |
| 3 | 44.8 | 46.6 | 10.6 | 13.5 | 5.1 | 6.7 | 18.6 | |
| 4 | 46.9 | 48.9 | 11.7 | 15.2 | 5.3 | 6.9 | 20.2 | |
| 5 | 48.6 | 50.8 | 12.5 | 16.6 | 5.3 | 6.9 | 21.2 | |
| 6 | 50.0 | 52.4 | 12.9 | 17.4 | 5.4 | 7.1 | 22.0 | |
| 7 | 50.5 | 53.1 | 13.1 | 17.8 | 5.6 | 7.5 | 22.5 | |
| 8 | 51.3 | 54.1 | 13.4 | 18.5 | 5.6 | 7.5 | 22.6 | |
| 9 | 52.0 | 55.0 | 13.7 | 19.2 | 5.7 | 7.8 | 23.0 | |
| 10 | 52.6 | 55.9 | 14.2 | 20.3 | 5.8 | 8.1 | 23.1 | |

| <i>cont'd</i> | Type of progression | | |
|---------------|-----------------------------------|---------------------|-----------------------|
| | Distant metast. (1-KM) n=2,383 | NOS (CI) n=2,383 | NOS (1-KM) n=2,383 |
| Years | % | % | % |
| 0 | 0.0 | 0.0 | 0.0 |
| 1 | 10.5 | 18.2 | 19.4 |
| 2 | 18.6 | 21.6 | 23.8 |
| 3 | 22.2 | 23.3 | 26.2 |
| 4 | 24.5 | 23.7 | 26.9 |
| 5 | 25.9 | 24.2 | 27.7 |
| 6 | 27.3 | 24.6 | 28.3 |
| 7 | 28.0 | 24.8 | 28.8 |
| 8 | 28.3 | 25.1 | 29.5 |
| 9 | 29.0 | 25.4 | 30.0 |
| 10 | 29.3 | 25.4 | 30.0 |

Table 5b. Time to first progression of patients with oropharynx cancer for period 1998-2016 (N=2,383).

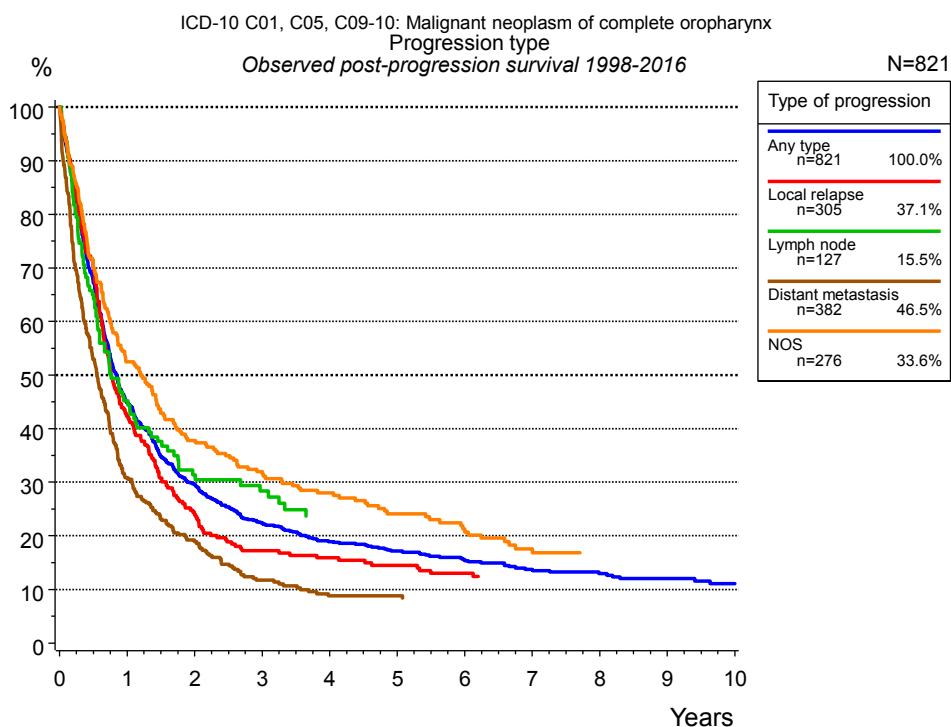


Figure 5c. Observed post-progression survival of 821 patients with oropharynx cancer diagnosed between 1998 and 2016. These 821 patients with documented progression events during their course of disease represent 33.0 % of the totally 2,485 evaluated cases (incl. M1, n=102, 4.1 %). Patients with cancer relapse documented via death certificates only were excluded (n=434, 17.5 %). Multiple progression types on different sites are included in the evaluation even when not occurring synchronously. The NOS (not otherwise specified) class is included under the condition, that it is the one and only progression type during the course of disease.

Medical record documentation often lacks the linguistic severity to distinguish between local relapse, regional lymph node metastasis and distant spread in solid cancers. Frequently, the statement “not specified” is the only information in registries regarding relapse of the disease. The category “Any type” denotes all cases who suffered from at least one relapse during the course of disease (incl. primary M1-status). Although, the real number of relapsed patients is likely to be much higher. The accumulated percentage of patients with local relapse or distant metastasis exceeds the 100 % value because patients are potentially considered in more than one subgroup.

| Years | Type of progression | | | | |
|-------|------------------------|-----------------------------|--------------------------|----------------------------------|-------------------|
| | Any type n=821 % | Local relapse n=305 % | Lymph node n=127 % | Distant metastasis n=382 % | NOS n=276 % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 44.9 | 42.5 | 45.2 | 30.8 | 52.5 |
| 2 | 29.6 | 24.1 | 31.4 | 18.9 | 37.8 |
| 3 | 22.4 | 17.2 | 28.4 | 11.7 | 32.0 |
| 4 | 18.9 | 15.9 | | 8.8 | 28.0 |
| 5 | 17.1 | 14.5 | | 8.8 | 24.1 |
| 6 | 15.6 | 13.0 | | | 21.3 |
| 7 | 13.7 | | | | 17.6 |
| 8 | 12.9 | | | | |
| 9 | 12.0 | | | | |
| 10 | 11.1 | | | | |

Table 5d. Observed post-progression survival of patients with oropharynx cancer for period 1998-2016 (N=821).

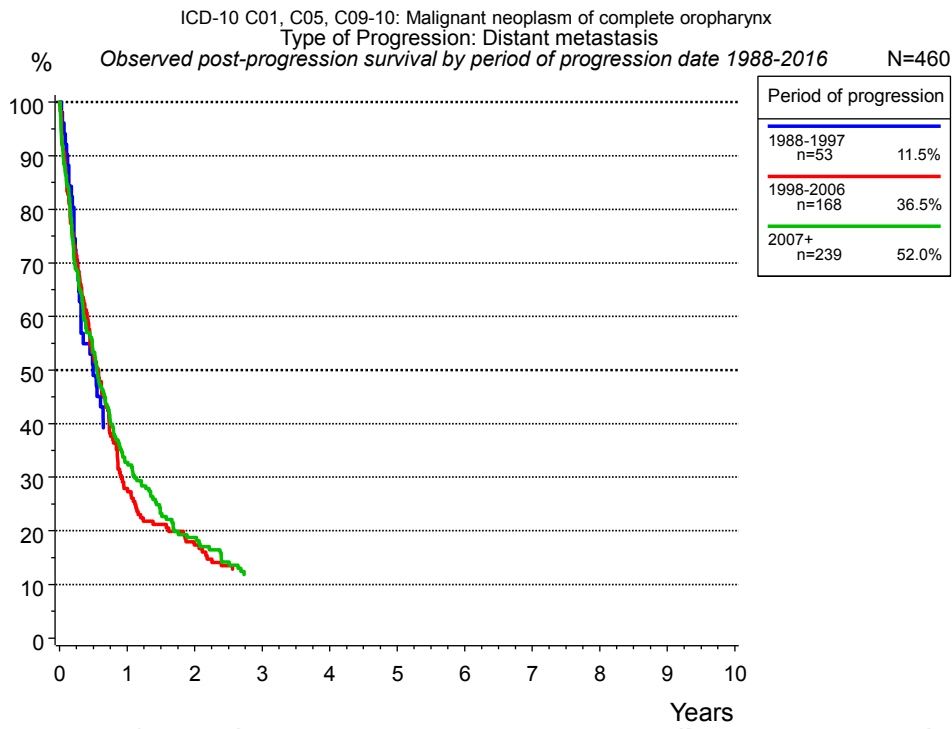


Figure 5e. Observed post-progression (distant metastasis) survival of 460 patients with oropharynx cancer diagnosed between 1988 and 2016 by period of progression.

| Years | Period of progression | | |
|-------|------------------------|-------------------------|---------------------|
| | 1988-1997 n=53 % | 1988-2006 n=168 % | 2007+ n=239 % |
| 0 | 100.0 | 100.0 | 100.0 |
| 1 | | 27.9 | 32.8 |
| 2 | | 17.3 | 18.7 |

Table 5f. Observed post-progression (distant metastasis) survival of patients with oropharynx cancer for period 1988-2016 by period of progression (N=460).

Shortcuts

MCR Munich Cancer Registry, Germany

NCI National Cancer Institute, USA

SEER Surveillance, Epidemiology, and End Results, USA

UICC Union for International Cancer Control, Geneva

DCO Death certificate only Death certificate provides the only notification to the registry.

NA Not available

NOS Not otherwise specified

OS Overall/Observed survival Overall/Observed survival (Kaplan-Meier estimate)
Date of entry: diagnosis
Event: death from any cause

RS Relative survival Survival compared to “general population”,
ratio of observed to expected survival (Ederer II method),
reflecting cancer specific survival

AS Assembled survival Assembled chart of
observed, expected, relative survival

CS Conditional survival Survival probability under the condition of surviving
a given period of time

TTP Time to progression Time to first progression / relapse
Date of entry: diagnosis
Event: (progression / relapse): first local-, lymph node recurrence,
distant metastasis or unspecified progression

1-KM 1 minus Kaplan-Meier estimator
 (“inverse” Kaplan-Meier estimator)

CI Cumulative incidence
Death as competing risk (according to Kalbfleisch und Prentice)

PPS Post-progression survival Survival since first progression / relapse (Kaplan-Meier estimate)
Date of entry (progression / relapse): first local-, lymph node
recurrence, distant metastasis or unspecified progression
Event: death from any cause

Recommended Citation

Munich Cancer Registry. Survival ICD-10 C01, C05, C09-10: Oropharynx cancer [Internet]. 2018 [updated 2018 Aug 22; cited 2018 Oct 1]. Available from: <https://www.tumorregister-muenchen.de/en/facts/surv/sC0910E-ICD-10-C01-C05-C09-10-Oropharynx-cancer-survival.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.