Munich Cancer Registry



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

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

Cancer statistics: Survival

C60-C68: Urologic cancer

| Year of diagnosis | 1988-2012 |
|-------------------|------------|
| Patients | 72,431 |
| Diseases | 75,645 |
| Cases evaluated | 42,863 |
| Creation date | 03/25/2014 |
| Export date | 02/12/2014 |
| Population | 4.5 m |



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C6068E.pdf

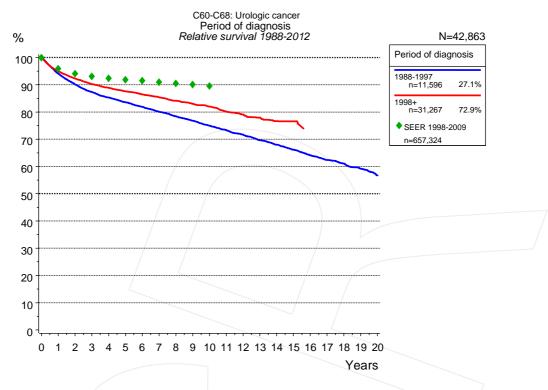


Figure 1a. Relative survival of patients with urologic cancer by period of diagnosis. Included in the evaluation are 42,863 cases diagnosed between 1988 and 2012.

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 1988, 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.

| I | Period | of diag | gnosis | |
|-------|--------|---------|--------|-----------------|
| | 1988- | 1997 | 199 |) 8+ |
| | n=11 | ,596 | n=31 | ,267 |
| Years | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 90.4 | 94.1 | 91.9 | 94.9 |
| 2 | 83.2 | 90.1 | 86.5 | 92.3 |
| 3 | 77.5 | 87.3 | 82.0 | 90.2 |
| 4 | 72.9 | 85.3 | 78.2 | 88.9 |
| 5 | 68.7 | 83.6 | 74.6 | 87.6 |
| 6 | 64.8 | 81.9 | 71.2 | 86.4 |
| 7 | 61.1 | 80.1 | 68.0 | 85.4 |
| 8 | 57.6 | 78.4 | 64.7 | 84.1 |
| 9 | 54.4 | 76.8 | 61.5 | 83.0 |
| 10 | 51.1 | 75.0 | 58.6 | 82.0 |
| 11 | 48.2 | 73.3 | 55.1 | 80.2 |
| 12 | 45.4 | 71.7 | 52.3 | 79.1 |
| 13 | 42.4 | 69.6 | 49.5 | 77.9 |
| 14 | 39.9 | 68.0 | 46.7 | 76.6 |
| 15 | 37.4 | 66.2 | 45.0 | 76.6 |
| 16 | 34.9 | 64.1 | | |
| 17 | 32.6 | 62.4 | | |
| 18 | 30.7 | 61.0 | | |
| 19 | 28.6 | 59.2 | | |
| 20 | 26.4 | 56.7 | | |
| | | | | |

Table 1b. Observed (obs.) and relative (rel.) survival of patients with urologic cancer by period of diagnosis for period 1988-2012 (N=42,863).

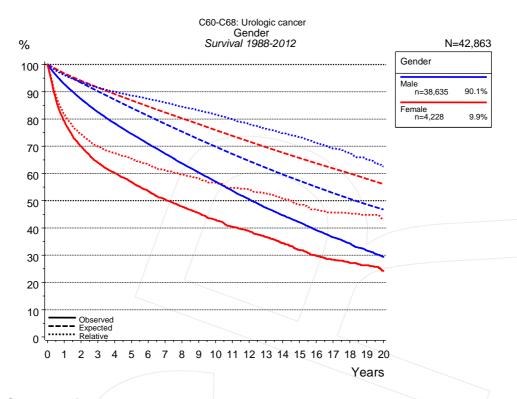


Figure 2a. Survival of patients with urologic cancer by gender. Included in the evaluation are 42,863 cases diagnosed between 1988 and 2012.

| Gender | | | | | | |
|--------|----------|--------|--------|--------|--|--|
| | Ma | ale | Fem | nale | | |
| | n=38,635 | | n=4, | 228 | | |
| Years | obs. % | rel. % | obs. % | rel. % | | |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | | |
| 1 | 92.8 | 96.1 | 79.2 | 81.9 | | |
| 2 | 87.3 | 93.5 | 69.9 | 74.3 | | |
| 3 | 82.5 | 91.5 | 63.9 | 69.8 | | |
| 4 | 78.4 | 90.0 | 60.2 | 67.4 | | |
| 5 | 74.5 | 88.6 | 56.8 | 65.4 | | |
| 6 | 70.8 | 87.3 | 53.5 | 63.3 | | |
| 7 | 67.2 | 86.0 | 50.4 | 61.1 | | |
| 8 | 63.7 | 84.5 | 47.9 | 59.6 | | |
| 9 | 60.3 | 83.2 | 45.4 | 58.1 | | |
| 10 | 57.0 | 81.6 | 43.0 | 56.6 | | |
| 11 | 53.7 | 79.9 | 40.4 | 54.7 | | |
| 12 | 50.6 | 78.3 | 38.8 | 54.1 | | |
| 13 | 47.4 | 76.3 | 36.7 | 52.6 | | |
| 14 | 44.6 | 74.8 | 34.5 | 50.9 | | |
| 15 | 42.0 | 73.4 | 31.9 | 48.5 | | |
| 16 | 39.2 | 71.2 | 29.7 | 46.6 | | |
| 17 | 36.5 | 69.2 | 28.4 | 45.7 | | |
| 18 | 34.3 | 67.6 | 27.1 | 45.2 | | |
| 19 | 31.7 | 65.2 | 26.3 | 44.8 | | |
| 20 | 29.3 | 62.6 | 24.2 | 43.0 | | |

Table 2b. Observed (obs.) and relative (rel.) survival of patients with urologic cancer by gender for period 1988-2012 (N=42,863).

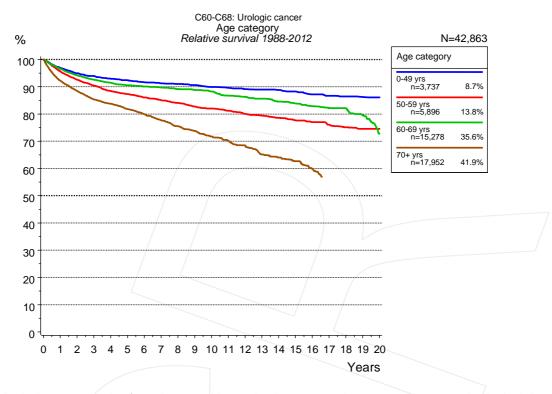


Figure 3a. Relative survival of patients with urologic cancer by age category. Included in the evaluation are 42,863 cases diagnosed between 1988 and 2012.

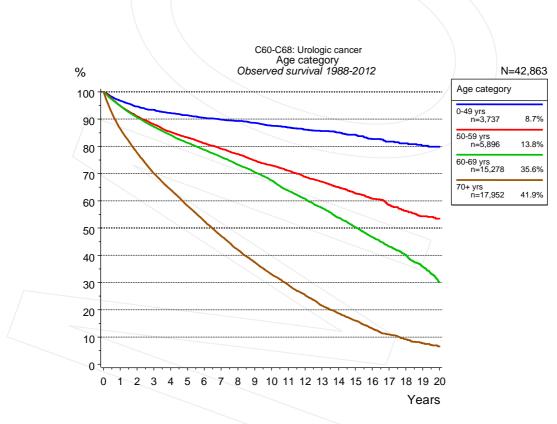


Figure 3b. Observed survival of patients with urologic cancer by age category. Included in the evaluation are 42,863 cases diagnosed between 1988 and 2012.

| | Age category | | | | | | | | | | | |
|-------|--------------|--------|--------|--------|----------|--------|----------|--------|--|--|--|--|
| | 0-49 | yrs | 50-59 | 9 yrs | 60-69 | 9 yrs | 70+ | yrs | | | | |
| | n=3, | 737 | n=5, | 896 | n=15,278 | | n=17,952 | | | | | |
| Years | 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 | 96.7 | 96.9 | 94.8 | 95.6 | 94.8 | 96.6 | 86.4 | 92.2 | | | | |
| 2 | 94.6 | 94.9 | 91.0 | 92.5 | 90.6 | 94.2 | 77.6 | 88.4 | | | | |
| 3 | 93.4 | 93.9 | 88.0 | 90.4 | 87.2 | 92.6 | 70.0 | 85.3 | | | | |
| 4 | 92.2 | 92.9 | 85.3 | 88.4 | 84.1 | 91.4 | 64.0 | 83.7 | | | | |
| 5 | 91.4 | 92.4 | 83.2 | 87.3 | 81.3 | 90.5 | 58.1 | 81.8 | | | | |
| 6 | 90.4 | 91.6 | 81.0 | 86.0 | 78.7 | 90.1 | 52.5 | 79.9 | | | | |
| 7 | 89.8 | 91.2 | 79.1 | 85.0 | 76.1 | 89.7 | 47.1 | 77.7 | | | | |
| 8 | 89.3 | 91.0 | 77.1 | 84.0 | 73.3 | 89.1 | 42.0 | 75.5 | | | | |
| 9 | 88.6 | 90.6 | 74.8 | 82.7 | 70.5 | 88.8 | 37.5 | 73.7 | | | | |
| 10 | 87.6 | 89.9 | 73.0 | 82.0 | 67.5 | 88.2 | 33.0 | 71.7 | | | | |
| 11 | 86.9 | 89.6 | 71.1 | 81.1 | 63.7 | 86.7 | 29.1 | 70.2 | | | | |
| 12 | 86.2 | 89.1 | 68.8 | 80.0 | 60.8 | 86.3 | 25.4 | 68.4 | | | | |
| 13 | 85.6 | 89.0 | 67.0 | 79.4 | 57.4 | 85.6 | 21.5 | 65.1 | | | | |
| 14 | 85.1 | 88.8 | 65.0 | 78.6 | 53.8 | 84.5 | 18.6 | 64.0 | | | | |
| 15 | 84.3 | 88.2 | 62.7 | 77.6 | 50.3 | 83.9 | 16.0 | 62.6 | | | | |
| 16 | 82.7 | 87.2 | 60.8 | 77.0 | 46.7 | 82.8 | 13.1 | 59.9 | | | | |
| 17 | 81.7 | 86.7 | 58.5 | 76.0 | 43.2 | 82.2 | | | | | | |
| 18 | 81.1 | 86.4 | 56.3 | 75.1 | 40.1 | 82.1 | | | | | | |
| 19 | 80.2 | 86.2 | 54.3 | 74.5 | 35.8 | 79.6 | | | | | | |
| 20 | 79.9 | 86.1 | 53.5 | 74.5 | 30.1 | 72.8 | | | | | | |
| | | | | | | | | | | | | |

Table 3c. Observed (obs.) and relative (rel.) survival of patients with urologic cancer by age category for period 1988-2012 (N=42,863).

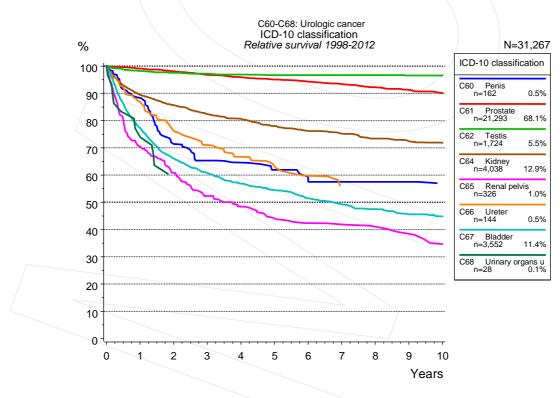


Figure 4a. Relative survival of patients with urologic cancer by ICD-10 classification. Included in the evaluation are 31,267 cases diagnosed between 1998 and 2012.

| | ICD-10 classification | | | | | | | | | | | | | |
|-------|-----------------------|--------|--------|---------|--------|--------|--------|--------|---------|-----------|------------|--------|-------------|--------|
| | C60 F | Penis | C61 P | rostate | C62 T | estis | C64 K | idney | C65 Ren | al pelvis | C66 Ureter | | C67 Bladder | |
| | n=1 | 62 | n=21 | ,293 | n=1, | 724 | n=4, | 038 | n=326 | | n=144 | | n=3,552 | |
| Years | 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 | 85.4 | 88.3 | 95.7 | 99.1 | 98.0 | 98.2 | 87.3 | 89.4 | 67.8 | 70.4 | 83.3 | 86.8 | 73.7 | 77.3 |
| 2 | 66.1 | 71.4 | 91.6 | 98.1 | 97.0 | 97.5 | 81.7 | 85.6 | 56.2 | 60.8 | 70.8 | 76.2 | 60.5 | 66.1 |
| 3 | 59.1 | 65.3 | 87.4 | 96.8 | 96.5 | 97.2 | 76.8 | 82.3 | 46.4 | 52.3 | 63.2 | 71.0 | 53.5 | 60.8 |
| 4 | 56.5 | 64.5 | 83.5 | 95.9 | 95.9 | 96.9 | 73.4 | 80.6 | 41.5 | 48.4 | 57.2 | 66.7 | 48.2 | 56.8 |
| 5 | 51.9 | 61.9 | 79.9 | 95.1 | 95.5 | 96.7 | 69.3 | 78.0 | 36.4 | 44.1 | 52.5 | 63.1 | 44.5 | 54.4 |
| 6 | 46.2 | 57.5 | 76.3 | 94.3 | 95.3 | 96.7 | 66.0 | 76.2 | 33.7 | 42.4 | 47.4 | 59.7 | 40.5 | 51.4 |
| 7 | 46.2 | 57.5 | 72.7 | 93.4 | 95.3 | 96.7 | 63.5 | 75.2 | 32.9 | 41.9 | 42.7 | 56.1 | 37.3 | 49.2 |
| 8 | 44.5 | 57.5 | 69.0 | 92.3 | 94.7 | 96.7 | 60.4 | 73.4 | 31.1 | 41.0 | 42.7 | 56.1 | 34.9 | 47.5 |
| 9 | 44.5 | 57.5 | 65.4 | 91.2 | 93.9 | 96.5 | 58.0 | 72.5 | 28.7 | 38.4 | 42.7 | 56.1 | 32.1 | 45.6 |
| 10 | 39.6 | 56.8 | 61.9 | 90.1 | 93.9 | 96.5 | 55.9 | 71.8 | 25.0 | 34.6 | 42.7 | 56.1 | 30.5 | 44.9 |

| ICD-10 | classifi | ication |
|--------|----------|---------|
| | C68 U | Irinary |
| cont'd | orga | ans |
| | uns | oec. |
| | n= | 28 |
| Years | obs. % | rel. % |
| 0 | 100.0 | 100.0 |
| 1 | 75.0 | 74.0 |

Table 4b. Observed (obs.) and relative (rel.) survival of patients with urologic cancer by ICD-10 classification for period 1998-2012 (N=31,267).

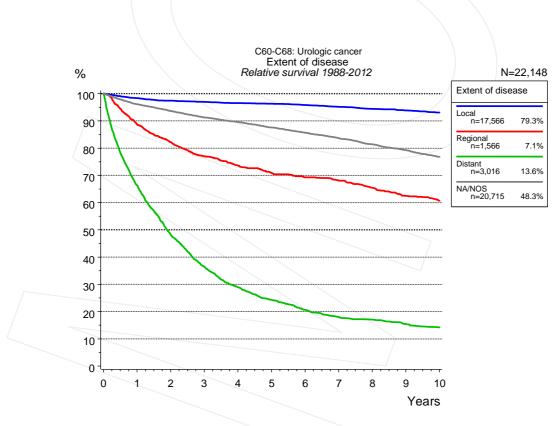


Figure 4c. Relative survival of patients with urologic cancer by extent of disease. For 37,898 of 42,863 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. For a total of 22,148 cases an evaluable classification was established. The grey line represents the subgroup of 20,715 patients with missing values regarding extent of disease (48.3% of 42,863 patients, the percent values of all other categories are related to n=22,148).

| Extent of disease | | | | | | | | | | | |
|-------------------|--------|--------|----------|--------|---------|--------|--------|--------|--|--|--|
| | Loc | cal | Regional | | Distant | | NA/NOS | | | | |
| | n=17 | ,566 | n=1, | 566 | n=3, | 016 | n=20 | ,715 | | | |
| Years | 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 | 95.5 | 98.4 | 86.7 | 88.7 | 63.9 | 66.3 | 92.4 | 96.1 | | | |
| 2 | 91.8 | 97.4 | 78.7 | 82.3 | 44.8 | 48.2 | 86.6 | 93.6 | | | |
| 3 | 88.8 | 97.0 | 72.0 | 77.0 | 32.8 | 36.5 | 81.2 | 91.3 | | | |
| 4 | 85.8 | 96.5 | 67.4 | 73.6 | 25.2 | 28.9 | 76.7 | 89.6 | | | |
| 5 | 82.9 | 96.3 | 63.4 | 70.9 | 20.5 | 24.3 | 72.1 | 87.6 | | | |
| 6 | 79.9 | 95.8 | 60.4 | 69.3 | 17.0 | 20.7 | 67.8 | 85.7 | | | |
| 7 | 76.8 | 95.2 | 57.9 | 68.1 | 14.4 | 17.9 | 63.5 | 83.6 | | | |
| 8 | 73.7 | 94.4 | 54.3 | 65.5 | 13.4 | 17.1 | 59.4 | 81.4 | | | |
| 9 | 70.8 | 93.8 | 50.4 | 62.5 | 11.9 | 15.4 | 55.5 | 79.3 | | | |
| 10 | 67.7 | 93.0 | 47.8 | 60.7 | 10.8 | 14.2 | 51.5 | 76.8 | | | |

Table 4d. Observed (obs.) and relative (rel.) survival of patients with urologic cancer by extent of disease for period 1988-2012 (N=22,148).

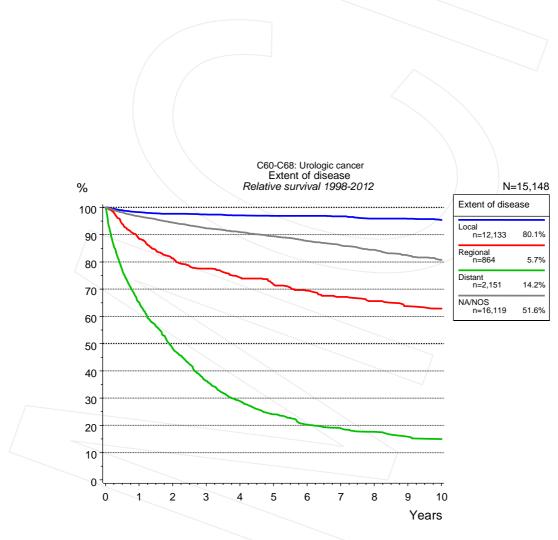


Figure 4e. Relative survival of patients with urologic cancer by extent of disease. For 27,475 of 31,267 cases diagnosed between 1998 and 2012 valid data could be obtained for this item. For a total of 15,148 cases an evaluable classification was established. The grey line represents the subgroup of 16,119 patients with missing values regarding extent of disease (51.6% of 31,267 patients, the percent values of all other categories are related to n=15,148).

| Extent of disease | | | | | | | | | | | |
|-------------------|--------|--------|----------|--------|---------|--------|----------|--------|--|--|--|
| | Loc | cal | Regional | | Distant | | NA/NOS | | | | |
| | n=12 | ,133 | n=8 | 364 | n=2, | 151 | n=16,119 | | | | |
| Years | 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 | 95.5 | 98.3 | 86.7 | 88.4 | 62.8 | 65.1 | 93.3 | 96.7 | | | |
| 2 | 92.3 | 97.7 | 78.1 | 81.3 | 45.1 | 48.2 | 88.0 | 94.4 | | | |
| 3 | 89.5 | 97.4 | 73.1 | 77.5 | 32.9 | 36.3 | 83.1 | 92.3 | | | |
| 4 | 86.7 | 97.1 | 68.7 | 74.3 | 25.5 | 28.9 | 79.0 | 90.9 | | | |
| 5 | 83.9 | 96.9 | 65.1 | 71.8 | 20.6 | 24.0 | 74.9 | 89.4 | | | |
| 6 | 81.4 | 96.9 | 61.6 | 69.4 | 17.0 | 20.3 | 70.9 | 87.7 | | | |
| 7 | 78.7 | 96.7 | 58.3 | 67.1 | 15.5 | 18.9 | 67.0 | 86.0 | | | |
| 8 | 75.6 | 95.9 | 55.8 | 65.6 | 14.2 | 17.6 | 63.3 | 84.4 | | | |
| 9 | 72.9 | 95.8 | 53.0 | 63.7 | 12.5 | 15.8 | 59.4 | 82.3 | | | |
| 10 | 69.9 | 95.4 | 51.3 | 62.8 | 11.5 | 15.0 | 56.0 | 80.8 | | | |

Table 4f. Observed (obs.) and relative (rel.) survival of patients with urologic cancer by extent of disease for period 1998-2012 (N=15,148).

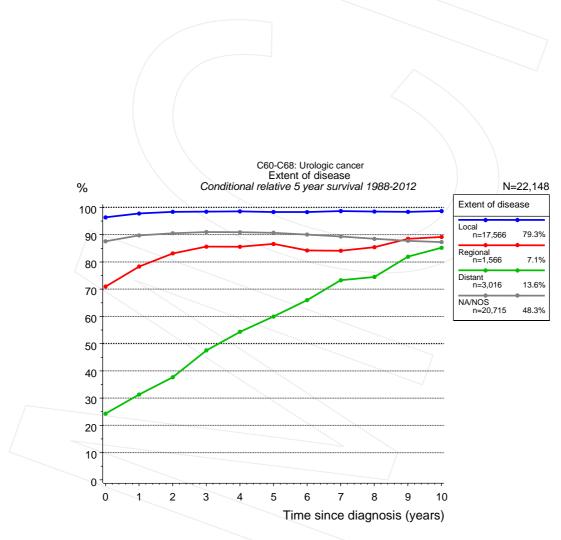


Figure 4g. Conditional relative 5-year survival of patients with urologic cancer by extent of disease. For 37,898 of 42,863 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. For a total of 22,148 cases an evaluable classification was established. The grey line represents the subgroup of 20,715 patients with missing values regarding extent of disease (48.3% of 42,863 patients, the percent values of all other categories are related to n=22,148).

| Extent of disease | | | | | | | | | | | | |
|-------------------|--------|------------------|-------|------------------|-------|---------------|------------------|-------|--|--|--|--|
| | Loc | al | Regio | onal | Dist | ant | NA/NOS | | | | | |
| | | Cond. surv. % | | Cond. surv. % | | Cond. surv. % | Cond. surv. % | | | | | |
| Years | n | 5 yrs | n | 5 yrs | n | 5 yrs | n | 5 yrs | | | | |
| 0 | 17,566 | 96.3 | 1,566 | 70.9 | 3,016 | 24.3 | 20,715 | 87.6 | | | | |
| 1 | 16,038 | 97.8 | 1,308 | 78.3 | 1,804 | 31.3 | 18,190 | 89.7 | | | | |
| 2 | 14,382 | 98.4 | 1,117 | 83.1 | 1,151 | 37.7 | 15,612 | 90.5 | | | | |
| 3 | 12,766 | 98.4 | 942 | 85.6 | 761 | 47.5 | 13,275 | 91.0 | | | | |
| 4 | 11,257 | 98.6 | 811 | 85.6 | 534 | 54.3 | 11,161 | 90.9 | | | | |
| 5 | 9,791 | 98.3 | 710 | 86.6 | 389 | 59.9 | 9,147 | 90.7 | | | | |
| 6 | 8,472 | 98.3 | 625 | 84.2 | 282 | 66.0 | 7,478 | 90.0 | | | | |
| 7 | 7,515 | 98.7 | 568 | 84.1 | 217 | 73.3 | 6,248 | 89.3 | | | | |
| 8 | 6,650 | 98.5 | 502 | 85.4 | 182 | 74.5 | 5,112 | 88.5 | | | | |
| 9 | 5,800 | 98.4 | 430 | 88.5 | 146 | 81.9 | 4,156 | 87.7 | | | | |
| 10 | 4,966 | 98.7 | 392 | 89.2 | 117 | 85.2 | 3,259 | 87.3 | | | | |

Table 4h. Conditional relative 5-year survival of patients with urologic cancer by extent of disease for period 1988-2012 (N=22,148).

Conditional relative survival rates refer to the relative survival probability, in this case for 5 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 4e). 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 5-year survival rate is 98.4% (n=12,766).

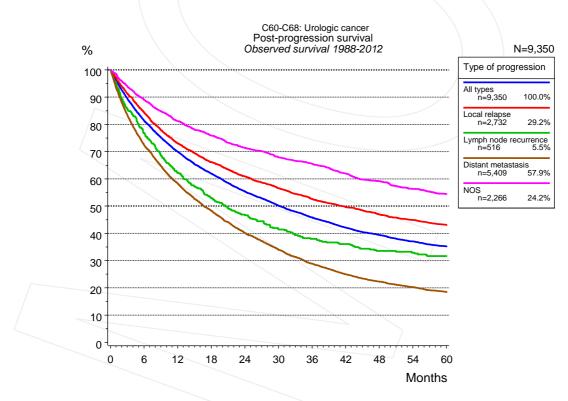


Figure 5a. Observed post-progression survival of 9,350 patients with urologic cancer diagnosed between 1988 and 2012 (incl. M1). These 9,350 patients with documented progression events during their course of disease represent 21.8% of the totally 42,863 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=1,785, 4.2%). 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 "All types" 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 potientially considered in more than one subgroup.

| | Type of progression | | | | | | | | | | | |
|--------|--|---------|-------|---------|---------|--|--|--|--|--|--|--|
| | All types Local relapse Lymph node recurrence Distant metastasis | | | | | | | | | | | |
| | n=9,350 | n=2,732 | n=516 | n=5,409 | n=2,266 | | | | | | | |
| Months | % | % | % | % | % | | | | | | | |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | | | | | | | |
| 12 | 70.0 | 73.0 | 62.2 | 58.3 | 81.2 | | | | | | | |
| 24 | 55.4 | 60.9 | 46.6 | 40.2 | 71.3 | | | | | | | |
| 36 | 45.8 | 52.6 | 38.0 | 28.9 | 65.5 | | | | | | | |
| 48 | 39.4 | 46.9 | 33.5 | 22.3 | 59.1 | | | | | | | |
| 60 | 35.2 | 43.0 | 31.6 | 18.4 | 54.5 | | | | | | | |

Table 5b. Observed post-progression survival of patients with urologic cancer for period 1988-2012 (N=9,350).



Shortcuts

AS Assembled survival chart (observed, expected, relative)

CS Conditional survival

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

MCR Munich Cancer Registry, Germany (Tumorregister München)

NA Not available

NCI National Cancer Institute, USA

NOS Not otherwise specified

OS Observed/overall survival (Kaplan-Meier estimate)

PPS Post-progression survival

RS Relative Survival. Ratio of observed and expected survival (derived from the normal population)

SEER Surveillance, Epidemiology, and End Results, USA

TTP Time to progression

Date of entry: Date of diagnosis

Event (Progression): First local recurrence, lymph node relapse or distant metastasis, unspecified

recurrence

First all-cause recurrence is illustrated by survival curves (Kaplan-Meier estimate).

First local recurrence, lymph node relapse or distant metastasis are depicted cumulatively, where

applicable ("reverse" Kaplan-Meier estimate).

UICC Union for International Cancer Control, Geneva

Recommended Citation

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