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

C73: Thyroid cancer

| Year of diagnosis | 1988-2012 |
|-------------------|------------|
| Patients | 6,663 |
| Diseases | 6,707 |
| Cases evaluated | 3,809 |
| Creation date | 03/25/2014 |
| Export date | 02/12/2014 |
| Population | 4.5 m |



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C73__E.pdf

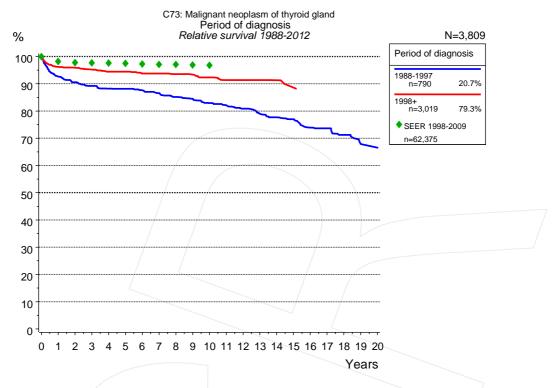


Figure 1a. Relative survival of patients with thyroid cancer by period of diagnosis. Included in the evaluation are 3,809 cases diagnosed between 1988 and 2012.

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 1998 to 2009, and are represented by green 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 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.



| Period of diagnosis | | | | | | | | |
|---------------------|--------|--------|---------|--------|--|--|--|--|
| | 1988- | 1997 | 1998+ | | | | | |
| | n=7 | 790 | n=3,019 | | | | | |
| Years | obs. % | rel. % | obs. % | rel. % | | | | |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | | | | |
| 1 | 91.2 | 92.6 | 95.3 | 96.2 | | | | |
| 2 | 88.0 | 90.5 | 94.3 | 95.9 | | | | |
| 3 | 85.7 | 89.2 | 92.8 | 95.2 | | | | |
| 4 | 83.5 | 88.2 | 91.3 | 94.4 | | | | |
| 5 | 82.6 | 88.1 | 90.8 | 94.4 | | | | |
| 6 | 80.9 | 87.6 | 89.1 | 93.7 | | | | |
| 7 | 78.9 | 86.6 | 88.6 | 93.7 | | | | |
| 8 | 76.6 | 85.2 | 87.4 | 93.5 | | | | |
| 9 | 75.1 | 84.5 | 86.2 | 93.4 | | | | |
| 10 | 72.7 | 82.9 | 84.3 | 92.3 | | | | |
| 11 | 71.1 | 82.1 | 82.5 | 91.3 | | | | |
| 12 | 69.1 | 80.8 | 81.9 | 91.3 | | | | |
| 13 | 66.7 | 79.0 | 81.1 | 91.3 | | | | |
| 14 | 64.5 | 77.7 | 79.8 | 91.3 | | | | |
| 15 | 63.2 | 77.0 | 77.4 | 88.6 | | | | |
| 16 | 59.7 | 73.9 | | | | | | |
| 17 | 58.9 | 73.7 | | | | | | |
| 18 | 56.2 | 71.2 | | | | | | |
| 19 | 52.6 | 67.9 | | | | | | |
| 20 | 52.6 | 66.5 | | | | | | |

Table 1b. Observed (obs.) and relative (rel.) survival of patients with thyroid cancer by period of diagnosis for period 1988-2012 (N=3,809).

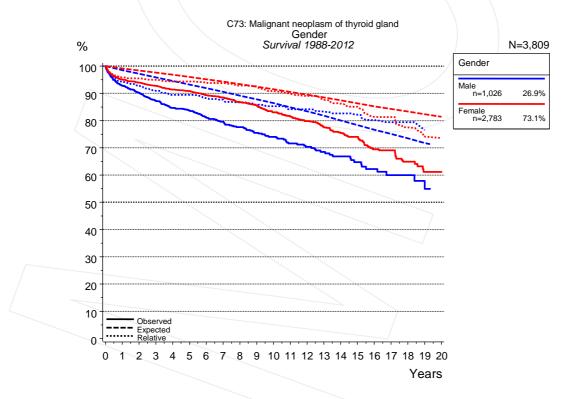


Figure 2a. Survival of patients with thyroid cancer by gender. Included in the evaluation are 3,809 cases diagnosed between 1988 and 2012.

Munich Cancer Registry 03/25/2014 surv_C73__E.pdf

| Gender | | | | | | | | | |
|--------|--------|--------|---------|--------|--|--|--|--|--|
| | Ma | ale | Female | | | | | | |
| | n=1, | 026 | n=2,783 | | | | | | |
| Years | obs. % | rel. % | obs. % | rel. % | | | | | |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | | | | | |
| 1 | 92.7 | 94.1 | 95.1 | 95.9 | | | | | |
| 2 | 90.2 | 92.8 | 93.9 | 95.4 | | | | | |
| 3 | 87.2 | 90.9 | 92.7 | 94.9 | | | | | |
| 4 | 84.6 | 89.4 | 91.3 | 94.3 | | | | | |
| 5 | 83.7 | 89.4 | 90.8 | 94.3 | | | | | |
| 6 | 81.2 | 88.1 | 89.3 | 93.9 | | | | | |
| 7 | 79.6 | 87.6 | 88.4 | 93.7 | | | | | |
| 8 | 77.6 | 86.7 | 86.7 | 92.8 | | | | | |
| 9 | 75.5 | 85.8 | 85.6 | 92.5 | | | | | |
| 10 | 74.0 | 85.3 | 83.0 | 90.7 | | | | | |
| 11 | 71.6 | 84.2 | 81.5 | 90.0 | | | | | |
| 12 | 70.3 | 84.2 | 79.8 | 89.0 | | | | | |
| 13 | 68.5 | 83.2 | 77.7 | 87.5 | | | | | |
| 14 | 66.8 | 82.6 | 75.4 | 86.2 | | | | | |
| 15 | 64.7 | 82.1 | 74.0 | 85.1 | | | | | |
| 16 | 62.2 | 80.1 | 69.5 | 81.4 | | | | | |
| 17 | 60.0 | 79.4 | 69.1 | 81.3 | | | | | |
| 18 | 60.0 | 79.4 | 64.9 | 77.5 | | | | | |
| 19 | 54.9 | 76.5 | 61.1 | 74.1 | | | | | |
| 20 | 54.9 | 71.9 | 61.1 | 73.6 | | | | | |

Table 2b. Observed (obs.) and relative (rel.) survival of patients with thyroid cancer by gender for period 1988-2012 (N=3,809).

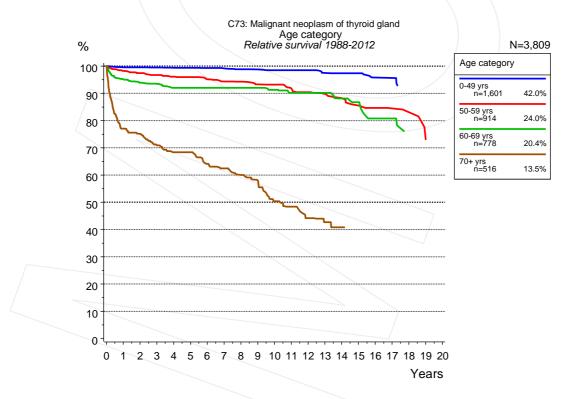


Figure 3a. Relative survival of patients with thyroid cancer by age category. Included in the evaluation are 3,809 cases diagnosed between 1988 and 2012.

Munich Cancer Registry 03/25/2014 surv_C73__E.pdf

| Age category | | | | | | | | | |
|--------------|--------|--------|-----------|--------|--------|--------|---------|--------|--|
| | 0-49 | yrs | 50-59 yrs | | 60-69 | 9 yrs | 70+ yrs | | |
| | n=1, | 601 | n=9 | 914 | n=7 | 78 | n=516 | | |
| 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 | 99.5 | 99.6 | 97.8 | 98.2 | 94.2 | 95.1 | 73.4 | 77.1 | |
| 2 | 99.4 | 99.6 | 96.6 | 97.5 | 91.8 | 93.9 | 68.4 | 75.1 | |
| 3 | 99.1 | 99.5 | 95.4 | 96.7 | 90.1 | 93.5 | 61.5 | 70.9 | |
| 4 | 98.9 | 99.4 | 94.1 | 96.0 | 87.6 | 92.0 | 56.4 | 68.4 | |
| 5 | 98.8 | 99.4 | 93.7 | 95.9 | 86.8 | 92.0 | 53.8 | 68.4 | |
| 6 | 98.4 | 99.3 | 91.8 | 95.1 | 85.9 | 92.0 | 47.3 | 64.1 | |
| 7 | 98.1 | 99.2 | 90.5 | 94.3 | 85.5 | 92.0 | 43.6 | 62.4 | |
| 8 | 97.5 | 98.8 | 89.8 | 94.3 | 82.5 | 92.0 | 38.7 | 60.0 | |
| 9 | 97.3 | 98.8 | 88.0 | 93.3 | 81.1 | 92.0 | 35.0 | 57.9 | |
| 10 | 96.7 | 98.5 | 87.0 | 93.2 | 78.0 | 91.3 | 27.9 | 50.4 | |
| 11 | 96.5 | 98.5 | 84.9 | 91.7 | 74.6 | 90.1 | 25.1 | 48.4 | |
| 12 | 96.2 | 98.5 | 83.1 | 90.4 | 73.5 | 90.1 | 20.7 | 44.2 | |
| 13 | 94.8 | 97.5 | 81.4 | 89.8 | 71.0 | 90.1 | 17.8 | 42.7 | |
| 14 | 94.4 | 97.4 | 78.5 | 88.3 | 66.4 | 88.1 | 16.3 | 40.8 | |
| 15 | 94.4 | 97.4 | 75.9 | 85.5 | 63.5 | 86.7 | | | |
| 16 | 92.0 | 95.8 | 73.7 | 84.6 | 56.7 | 80.8 | | | |
| 17 | 92.0 | 95.6 | 72.2 | 84.4 | 55.3 | 80.8 | | | |
| 18 | | | 70.4 | 83.0 | 48.2 | 75.2 | | | |

Table 3b. Observed (obs.) and relative (rel.) survival of patients with thyroid cancer by age category for period 1988-2012 (N=3,809).

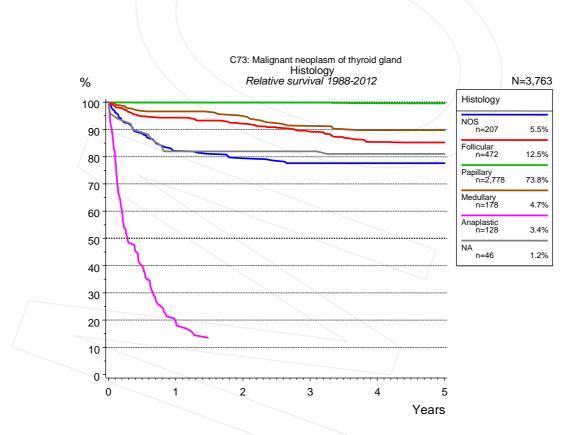


Figure 4a. Relative survival of patients with thyroid cancer by histology. For 3,763 of 3,809 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. The grey line represents the subgroup of 46 patients with missing values regarding histology (1.2% of 3,809 patients, the percent values of all other categories are related to n=3,763).

| | Histology | | | | | | | | | | | |
|-------|-----------|----------------|--------|-----------|---------|-----------|--------|------------|--------|--------|--------|--------|
| | NC | NOS Follicular | | Papillary | | Medullary | | Anaplastic | | NA | | |
| | n=207 | | n=4 | 172 | n=2,778 | | n=178 | | n=128 | | n=46 | |
| Years | 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 |
| 1 | 80.6 | 82.1 | 92.7 | 94.3 | 99.3 | 99.8 | 96.0 | 96.6 | 19.0 | 19.2 | 80.1 | 81.9 |
| 2 | 77.4 | 79.4 | 88.8 | 92.1 | 98.6 | 99.8 | 93.4 | 94.9 | | | 80.1 | 81.9 |
| 3 | 74.6 | 77.6 | 84.4 | 89.2 | 97.8 | 99.8 | 89.2 | 91.3 | | | 80.1 | 81.9 |
| 4 | 74.0 | 77.6 | 79.2 | 85.4 | 96.7 | 99.5 | 86.7 | 89.7 | | | 75.5 | 81.0 |
| 5 | 74.0 | 77.6 | 77.8 | 85.2 | 96.1 | 99.5 | 86.7 | 89.7 | | | 75.5 | 81.0 |

Table 4b. Observed (obs.) and relative (rel.) survival of patients with thyroid cancer by histology for period 1988-2012 (N=3,763).

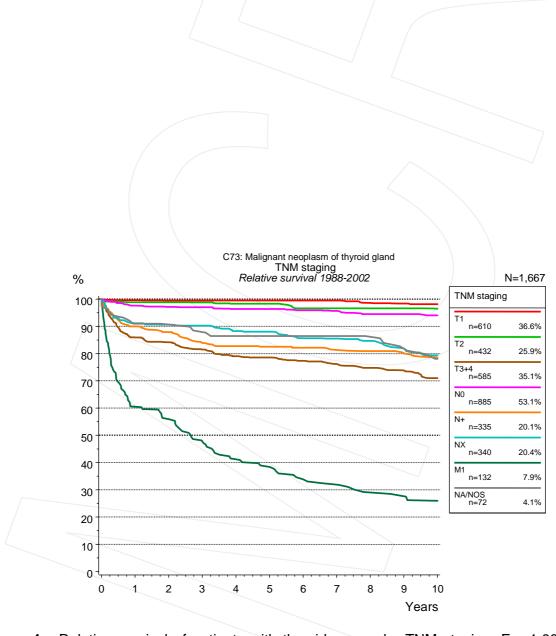


Figure 4c. Relative survival of patients with thyroid cancer by TNM staging. For 1,668 of 1,739 cases diagnosed between 1988 and 2002 valid data could be obtained for this item. For a total of 1,667 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 72 patients with missing values regarding TNM staging (4.1% of 1,739 patients, the percent values of all other categories are related to n=1,667).

Due to substantial changes in stage classification schemes long-term survival statistics over decades could not be created.

| | TNM staging | | | | | | | | | | | | | |
|-------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Т | 1 | Т | 2 | T3 | +4 | N | N0 | | N+ | | NX | | 1 |
| | n=6 | 610 | n=4 | 132 | n=5 | 85 | n=8 | n=885 | | n=335 | | 340 | n=132 | |
| 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 | 99.2 | 99.6 | 98.1 | 98.8 | 84.2 | 85.9 | 96.7 | 97.6 | 88.9 | 90.0 | 89.7 | 91.2 | 59.1 | 60.5 |
| 2 | 98.2 | 99.5 | 97.4 | 98.8 | 81.1 | 84.1 | 95.3 | 97.1 | 85.9 | 87.9 | 88.2 | 90.6 | 53.8 | 55.9 |
| 3 | 97.7 | 99.5 | 96.7 | 98.8 | 77.2 | 81.5 | 94.5 | 97.0 | 81.0 | 83.9 | 86.7 | 90.2 | 44.7 | 47.7 |
| 4 | 97.2 | 99.5 | 95.3 | 98.3 | 73.7 | 79.0 | 92.9 | 96.4 | 79.5 | 82.8 | 83.4 | 88.3 | 37.9 | 41.2 |
| 5 | 96.7 | 99.5 | 94.8 | 98.3 | 72.1 | 78.5 | 92.2 | 96.4 | 78.3 | 82.5 | 82.5 | 88.0 | 34.8 | 38.4 |
| 6 | 95.7 | 99.5 | 92.1 | 96.6 | 70.0 | 77.4 | 90.5 | 95.9 | 77.2 | 82.1 | 78.9 | 85.7 | 30.2 | 33.9 |
| 7 | 94.9 | 99.5 | 91.9 | 96.6 | 67.8 | 76.2 | 89.4 | 95.6 | 75.7 | 81.3 | 77.8 | 85.5 | 27.8 | 31.9 |
| 8 | 92.6 | 98.6 | 91.2 | 96.6 | 65.5 | 74.8 | 87.3 | 94.5 | 74.5 | 80.9 | 75.8 | 84.6 | 24.3 | 29.0 |
| 9 | 91.6 | 98.4 | 90.9 | 96.6 | 63.5 | 73.8 | 86.9 | 94.5 | 73.2 | 80.1 | 72.4 | 81.9 | 23.3 | 27.6 |
| 10 | 91.0 | 98.1 | 88.7 | 96.5 | 60.0 | 71.0 | 85.1 | 94.0 | 70.9 | 78.5 | 68.8 | 79.3 | 21.2 | 25.9 |

| TNM staging | | | | | | | | |
|-------------|--------|--------|--|--|--|--|--|--|
| cont'd | NA/N | NOS | | | | | | |
| | n= | 72 | | | | | | |
| Years | obs. % | rel. % | | | | | | |
| 0 | 100.0 | 100.0 | | | | | | |
| 1 | 88.9 | 91.0 | | | | | | |
| 2 | 87.5 | 90.6 | | | | | | |
| 3 | 83.3 | 87.9 | | | | | | |
| 4 | 80.6 | 86.4 | | | | | | |
| 5 | 80.6 | 86.4 | | | | | | |
| 6 | 77.7 | 86.4 | | | | | | |
| 7 | 77.7 | 86.4 | | | | | | |
| 8 | 74.6 | 86.1 | | | | | | |
| 9 | 69.9 | 81.8 | | | | | | |
| 10 | 65.0 | 78.0 | | | | | | |

Table 4d. Observed (obs.) and relative (rel.) survival of patients with thyroid cancer by TNM staging for period 1988-2002 (N=3,319).

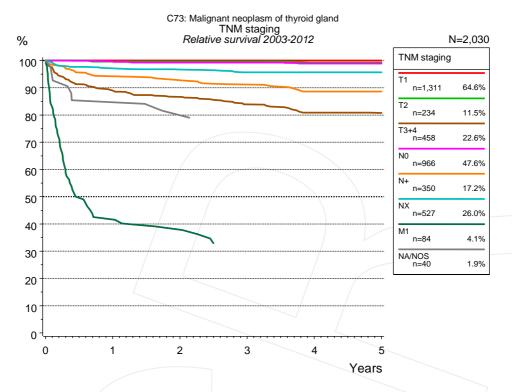


Figure 4e. Relative survival of patients with thyroid cancer by TNM staging. For 2,032 of 2,070 cases diagnosed between 2003 and 2012 valid data could be obtained for this item. For a total of 2,030 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 40 patients with missing values regarding TNM staging (1.9% of 2,070 patients, the percent values of all other categories are related to n=2,030).

Due to substantial changes in stage classification schemes long-term survival statistics over decades could not be created.

| | TNM staging | | | | | | | | | | | | | | | | | |
|-------|-------------|--------|--------|--------|--------|--------|--------------|--------|-------------|--------|--------|--------|--------|--------|-----|-----|----|----|
| | Т | 1 | Т | 2 | T3+4 | | N0 | | N+ | | NX | | M1 | | | | | |
| | n=1,311 | | n=234 | | n=458 | | 8 n=966 n=35 | | n=966 n=350 | | n=966 | | n=350 | | n=5 | 527 | n= | 84 |
| 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 | 99.8 | 100.0 | 99.1 | 99.6 | 87.6 | 89.0 | 98.9 | 99.6 | 93.9 | 94.2 | 96.3 | 97.1 | 41.6 | 41.6 | | | | |
| 2 | 99.2 | 100.0 | 98.5 | 99.6 | 84.6 | 86.6 | 98.0 | 99.2 | 91.9 | 92.8 | 95.0 | 96.7 | 37.5 | 37.9 | | | | |
| 3 | 98.8 | 100.0 | 97.8 | 99.6 | 80.8 | 83.9 | 97.6 | 99.2 | 89.9 | 91.2 | 93.1 | 95.6 | 31.0 | 31.7 | | | | |
| 4 | 98.2 | 100.0 | 95.9 | 99.2 | 77.2 | 80.9 | 96.2 | 98.9 | 86.8 | 88.6 | 92.4 | 95.6 | | | | | | |
| 5 | 98.0 | 100.0 | 95.9 | 99.2 | 76.6 | 80.8 | 95.9 | 98.9 | 86.8 | 88.6 | 92.4 | 95.6 | | | | | | |

| TNM staging | | | | | | | | | |
|-------------|--------|--------|--|--|--|--|--|--|--|
| cont'd | NA/NOS | | | | | | | | |
| | n=40 | | | | | | | | |
| Years | obs. % | rel. % | | | | | | | |
| 0 | 100.0 | 100.0 | | | | | | | |
| 1 | 84.8 | 84.7 | | | | | | | |
| 2 | 79.5 | 79.9 | | | | | | | |
| 3 | 76.7 | 76.8 | | | | | | | |
| 4 | 76.7 | 74.3 | | | | | | | |
| 5 | 76.7 | 71.8 | | | | | | | |

Table 4f. Observed (obs.) and relative (rel.) survival of patients with thyroid cancer by TNM staging for period 2003-2012 (N=3,930).

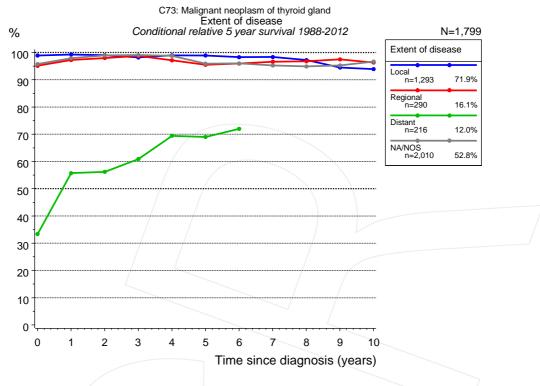


Figure 4g. Conditional relative 5-year survival of patients with thyroid cancer by extent of disease. For 3,700 of 3,809 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. For a total of 1,799 cases an evaluable classification was established. The grey line represents the subgroup of 2,010 patients with missing values regarding extent of disease (52.8% of 3,809 patients, the percent values of all other categories are related to n=1,799).

| | 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 | 1,293 | 98.9 | 290 | 95.1 | 216 | 33.4 | 2,010 | 95.8 | |
| 1 | 1,194 | 99.3 | 267 | 97.2 | 109 | 55.7 | 1,830 | 97.9 | |
| 2 | 1,042 | 99.0 | 243 | 98.0 | 95 | 56.2 | 1,670 | 99.0 | |
| 3 | 930 | 98.2 | 209 | 98.7 | 76 | 60.9 | 1,485 | 99.1 | |
| 4 | 819 | 98.9 | 180 | 97.1 | 60 | 69.4 | 1,301 | 98.8 | |
| 5 | 730 | 98.9 | 164 | 95.5 | 53 | 69.0 | 1,093 | 95.9 | |
| 6 | 628 | 98.3 | 144 | 95.9 | 45 | 72.0 | 903 | 96.0 | |
| 7 | 546 | 98.3 | 124 | 96.6 | | | 767 | 95.3 | |
| 8 | 466 | 97.2 | 109 | 96.8 | | | 654 | 94.9 | |
| 9 | 401 | 94.5 | 92 | 97.5 | | | 563 | 95.2 | |
| 10 | 327 | 93.9 | 79 | 96.3 | | | 457 | 96.7 | |

Table 4h. Conditional relative 5-year survival of patients with thyroid cancer by extent of disease for period 1988-2012 (N=1,799).

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 98.2% (n=930).

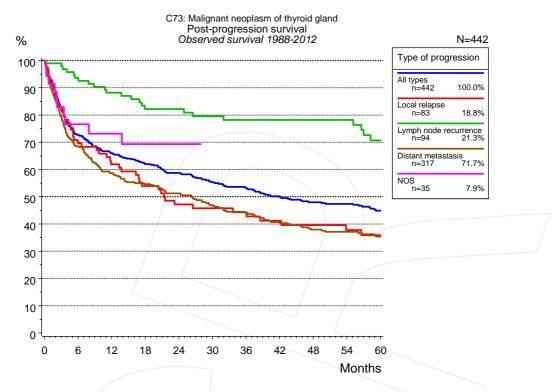


Figure 5a. Observed post-progression survival of 442 patients with thyroid cancer diagnosed between 1988 and 2012 (incl. M1). These 442 patients with documented progression events during their course of disease represent 11.6% of the totally 3,809 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=68, 1.8%). 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.

| stasis NOS |
|------------|
| tasis NOS |
| |
| n=35 |
| % |
| 100.0 |
| 73.1 |
| 69.3 |
| 69.3 |
| 69.3 |
| |
|) ; |

Table 5b. Observed post-progression survival of patients with thyroid cancer for period 1988-2012 (N=442).

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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