

Munich Cancer Registry



- ▶ Baseline statistics
- ▶ Selection Matrix
- ▶ Homepage
- ▶ *Deutsch*

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

Cancer statistics: Survival

C65: Renal pelvis cancer

| | |
|-------------------|------------|
| Year of diagnosis | 1988-2013 |
| Patients | 1,165 |
| Diseases | 1,178 |
| Cases evaluated | 482 |
| Creation date | 05/13/2015 |
| Export date | 12/30/2014 |
| Population | 4.64 m |



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C65__E.pdf

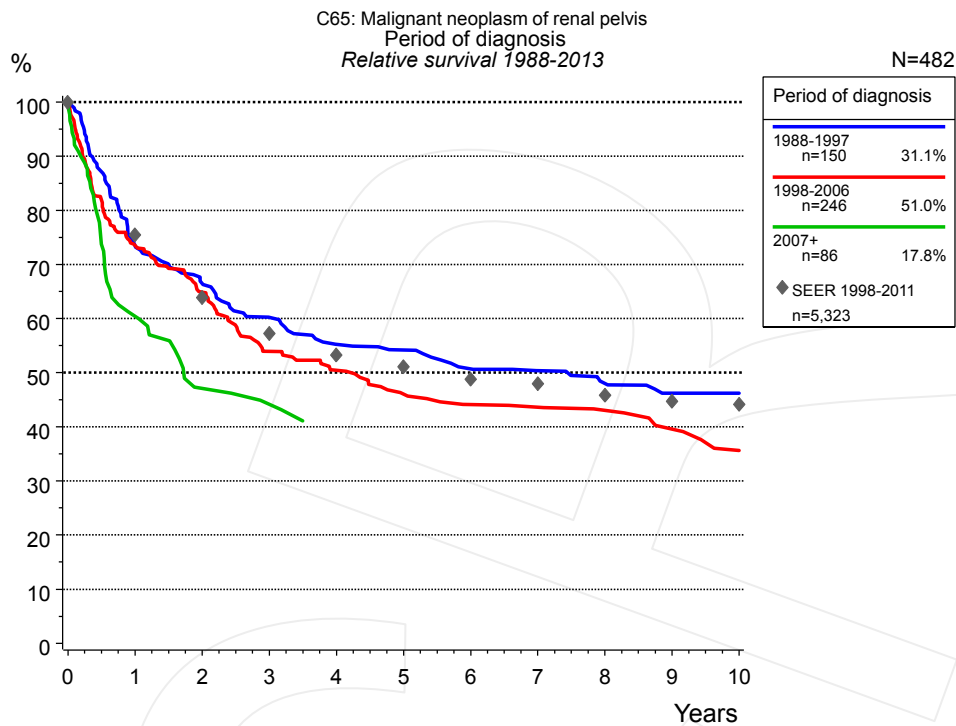


Figure 1a. Relative survival of patients with renal pelvis cancer by period of diagnosis. Included in the evaluation are 482 cases diagnosed between 1988 and 2013.

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 | | | | | | |
|---------------------|--------------------|--------|--------------------|--------|---------------|--------|
| Years | 1988-1997 n=150 | | 1998-2006 n=246 | | 2007+ n=86 | |
| | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 71.3 | 73.4 | 70.7 | 73.5 | 59.3 | 60.4 |
| 2 | 62.7 | 66.5 | 59.9 | 64.9 | 44.4 | 47.1 |
| 3 | 54.7 | 60.2 | 47.8 | 54.0 | 40.7 | 44.1 |
| 4 | 48.7 | 55.2 | 43.1 | 50.4 | | |
| 5 | 46.7 | 54.2 | 38.1 | 46.0 | | |
| 6 | 42.5 | 50.7 | 35.2 | 44.1 | | |
| 7 | 40.5 | 50.4 | 34.3 | 43.6 | | |
| 8 | 37.7 | 48.0 | 32.5 | 43.1 | | |
| 9 | 35.0 | 46.2 | 29.3 | 39.6 | | |
| 10 | 35.0 | 46.2 | 25.5 | 35.6 | | |

Table 1b. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by period of diagnosis for period 1988-2013 (N=482).

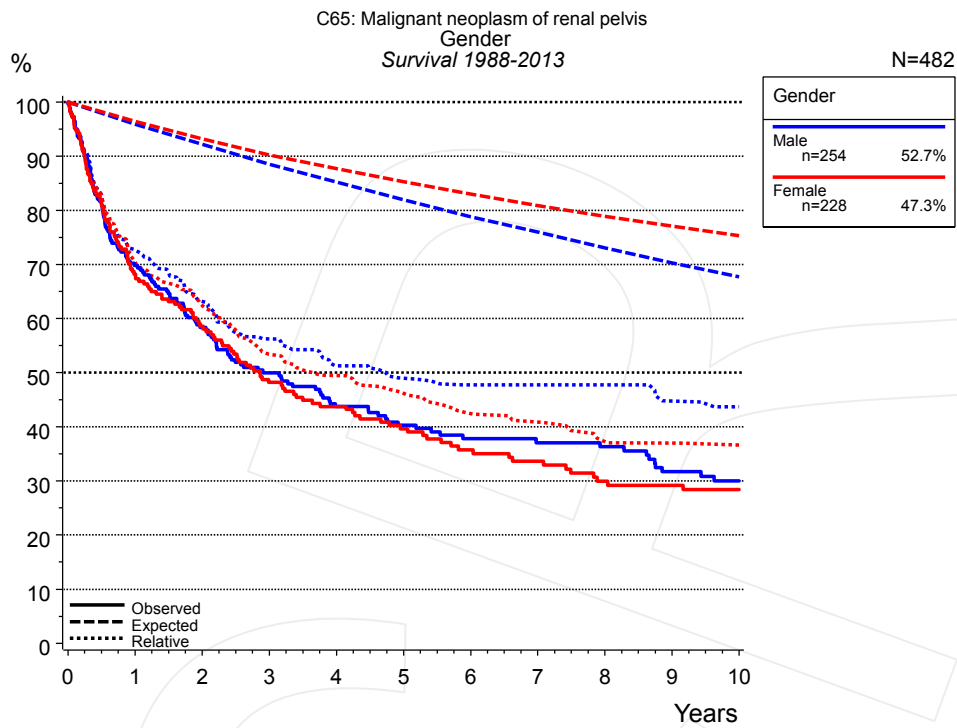


Figure 2a. Survival of patients with renal pelvis cancer by gender. Included in the evaluation are 482 cases diagnosed between 1988 and 2013.

| Years | Gender | | | |
|-------|---------------|--------|-----------------|--------|
| | Male n=254 | | Female n=228 | |
| | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 69.8 | 72.7 | 68.3 | 70.4 |
| 2 | 58.4 | 63.2 | 58.6 | 62.4 |
| 3 | 50.0 | 56.2 | 48.2 | 53.4 |
| 4 | 43.7 | 51.3 | 43.8 | 49.5 |
| 5 | 40.3 | 48.9 | 39.7 | 46.2 |
| 6 | 37.8 | 47.7 | 35.8 | 42.4 |
| 7 | 37.1 | 47.7 | 33.6 | 40.9 |
| 8 | 36.3 | 47.7 | 29.9 | 37.3 |
| 9 | 31.7 | 44.8 | 29.2 | 37.0 |
| 10 | 30.0 | 43.7 | 28.4 | 36.7 |

Table 2b. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by gender for period 1988-2013 (N=482).

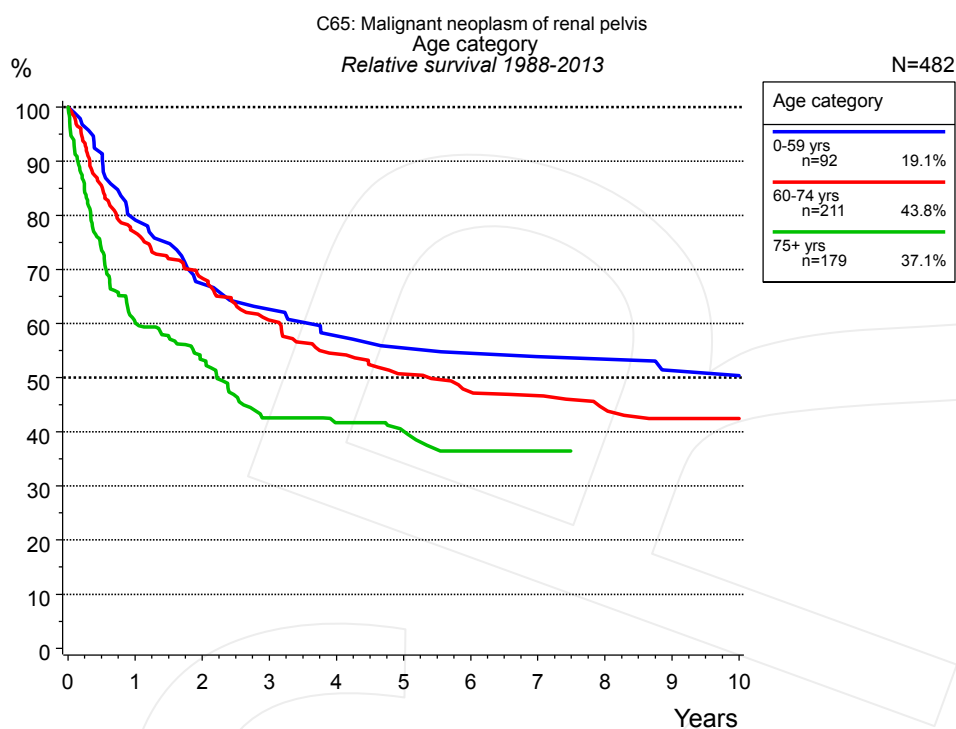


Figure 3a. Relative survival of patients with renal pelvis cancer by age category. Included in the evaluation are 482 cases diagnosed between 1988 and 2013.

| Years | Age category | | | | | |
|-------|------------------|--------|--------------------|--------|------------------|--------|
| | 0-59 yrs n=92 | | 60-74 yrs n=211 | | 75+ yrs n=179 | |
| | obs. % | rel. % | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 79.8 | 79.2 | 75.4 | 76.7 | 56.0 | 60.3 |
| 2 | 67.1 | 67.4 | 66.0 | 68.4 | 45.0 | 53.3 |
| 3 | 62.2 | 62.6 | 56.9 | 60.6 | 32.8 | 42.6 |
| 4 | 57.0 | 57.7 | 50.1 | 54.4 | 28.9 | 41.7 |
| 5 | 54.3 | 55.5 | 45.4 | 50.7 | 25.4 | 40.1 |
| 6 | 52.9 | 54.5 | 41.7 | 47.4 | 21.5 | 36.5 |
| 7 | 51.4 | 53.9 | 40.1 | 46.7 | 20.3 | 36.5 |
| 8 | 51.4 | 53.4 | 36.6 | 44.1 | | |
| 9 | 48.2 | 51.3 | 34.0 | 42.4 | | |
| 10 | 48.2 | 50.4 | 33.0 | 42.4 | | |

Table 3b. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by age category for period 1988-2013 (N=482).

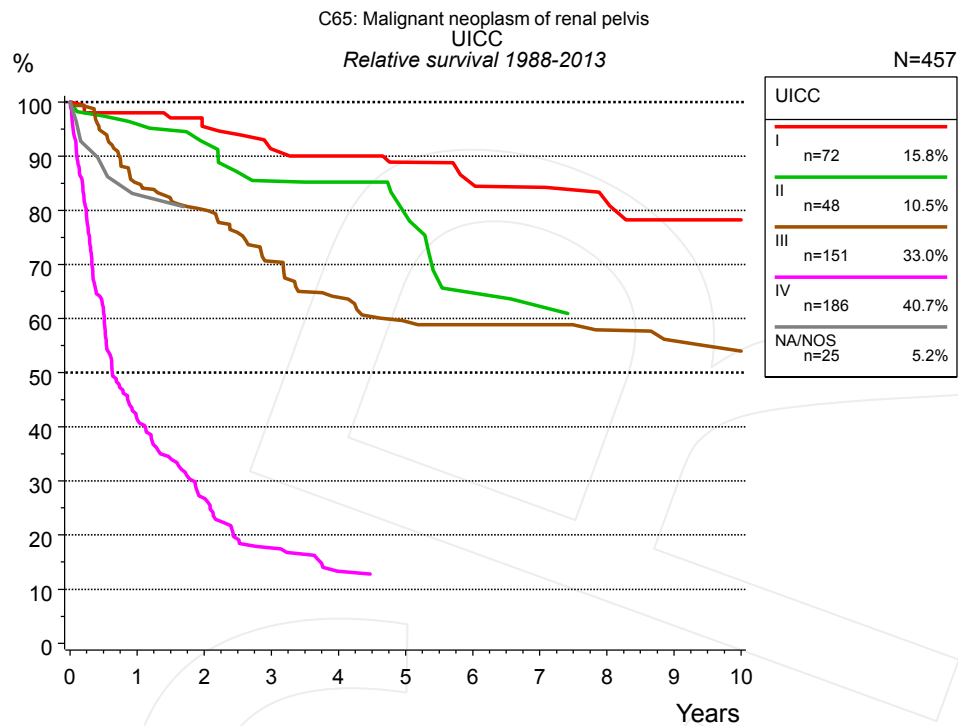


Figure 4a. Relative survival of patients with renal pelvis cancer by UICC. For 464 of 482 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. For a total of 457 cases an evaluable classification was established. The grey line represents the subgroup of 25 patients with missing values regarding UICC (5.2% of 482 patients, the percent values of all other categories are related to n=457).

| Years | UICC | | | | | | | | | |
|-------|-----------|--------|------------|--------|--------------|--------|-------------|--------|----------------|--------|
| | I n=72 | | II n=48 | | III n=151 | | IV n=186 | | NA/NOS n=25 | |
| | 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 |
| 1 | 95.8 | 98.0 | 93.7 | 96.0 | 81.9 | 85.0 | 40.3 | 41.4 | 79.0 | 82.9 |
| 2 | 88.5 | 95.4 | 87.1 | 92.5 | 74.3 | 80.1 | 25.5 | 26.8 | | |
| 3 | 81.9 | 91.3 | 78.1 | 85.4 | 62.7 | 70.5 | 16.3 | 17.6 | | |
| 4 | 80.1 | 90.0 | 75.7 | 85.2 | 54.9 | 63.9 | 11.5 | 13.3 | | |
| 5 | 76.2 | 88.9 | 68.3 | 79.2 | 49.2 | 59.4 | | | | |
| 6 | 72.1 | 84.8 | 54.3 | 64.7 | 47.1 | 58.8 | | | | |
| 7 | 69.9 | 84.2 | 51.1 | 62.3 | 45.9 | 58.8 | | | | |
| 8 | 65.4 | 81.5 | | | 43.4 | 57.9 | | | | |
| 9 | 60.7 | 78.2 | | | 40.7 | 55.8 | | | | |
| 10 | 60.7 | 78.2 | | | 39.3 | 54.0 | | | | |

Table 4b. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by UICC for period 1988-2013 (N=457).

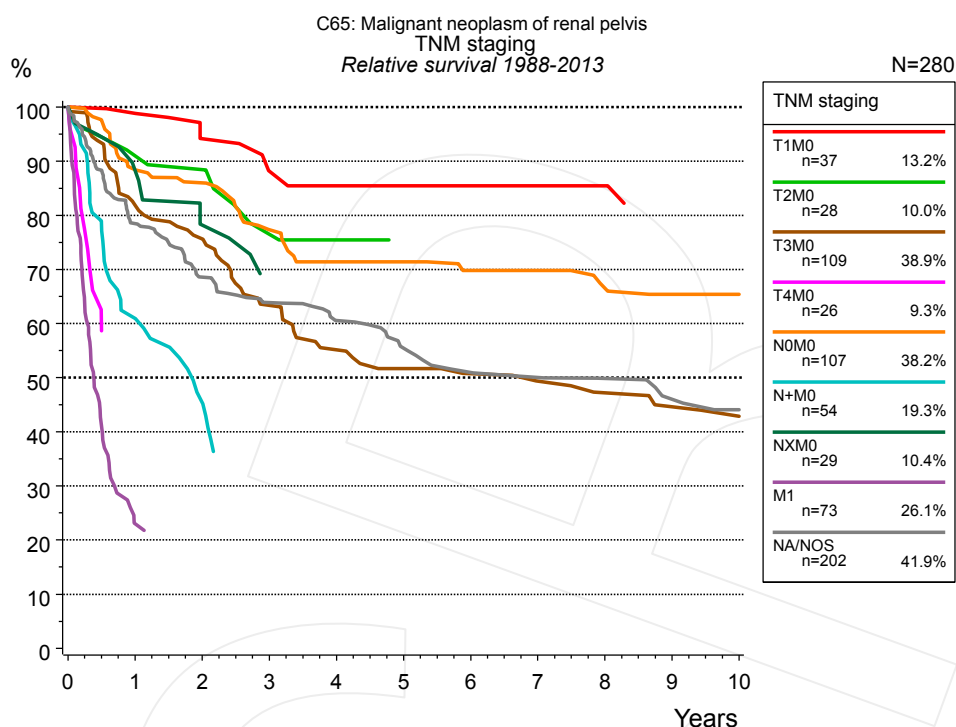


Figure 4c. Relative survival of patients with renal pelvis cancer by TNM staging. For 464 of 482 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. For a total of 280 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 202 patients with missing values regarding TNM staging (41.9% of 482 patients, the percent values of all other categories are related to n=280).

| TNM staging | | | | | | | | | | | | | | |
|-------------|--------------|--------|--------------|--------|---------------|--------|--------------|--------|---------------|--------|--------------|--------|--------------|--------|
| | T1M0 n=37 | | T2M0 n=28 | | T3M0 n=109 | | T4M0 n=26 | | N0M0 n=107 | | N+M0 n=54 | | NXM0 n=29 | |
| 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 | 97.3 | 98.8 | 89.3 | 91.0 | 80.2 | 81.8 | | | 86.7 | 88.4 | 61.0 | 60.9 | 85.9 | 88.3 |
| 2 | 86.5 | 94.2 | 85.7 | 88.4 | 72.1 | 75.6 | | | 81.8 | 86.0 | 44.7 | 45.5 | 71.6 | 78.2 |
| 3 | 78.0 | 88.1 | 71.3 | 76.5 | 58.2 | 63.4 | | | 70.6 | 77.4 | | | 60.9 | 67.7 |
| 4 | 75.0 | 85.4 | 67.3 | 75.5 | 49.4 | 55.1 | | | 64.4 | 71.4 | | | | |
| 5 | 75.0 | 85.4 | 63.1 | 74.1 | 44.8 | 51.7 | | | 62.3 | 71.4 | | | | |
| 6 | 71.6 | 85.4 | | | 42.4 | 50.7 | | | 58.8 | 69.8 | | | | |
| 7 | 71.6 | 85.4 | | | 39.7 | 49.3 | | | 58.8 | 69.8 | | | | |
| 8 | 71.6 | 85.4 | | | 37.0 | 47.2 | | | 53.7 | 66.6 | | | | |
| 9 | 64.0 | 82.0 | | | 34.2 | 44.6 | | | 51.0 | 65.4 | | | | |
| 10 | 64.0 | 81.6 | | | 32.7 | 42.8 | | | 51.0 | 65.4 | | | | |

| cont'd Years | TNM staging | | | |
|-----------------|-------------|--------|-----------------|--------|
| | M1 n=73 | | NA/NOS n=202 | |
| | obs. % | rel. % | obs. % | rel. % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 1 | 22.4 | 23.0 | 75.3 | 78.5 |
| 2 | | | 63.1 | 68.6 |
| 3 | | | 56.6 | 63.9 |
| 4 | | | 51.5 | 60.6 |
| 5 | | | 45.8 | 55.5 |
| 6 | | | 41.2 | 51.0 |
| 7 | | | 39.1 | 50.0 |
| 8 | | | 36.9 | 49.8 |
| 9 | | | 33.5 | 46.1 |
| 10 | | | 30.8 | 44.1 |

Table 4d. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by TNM staging for period 1988-2013 (N=463).

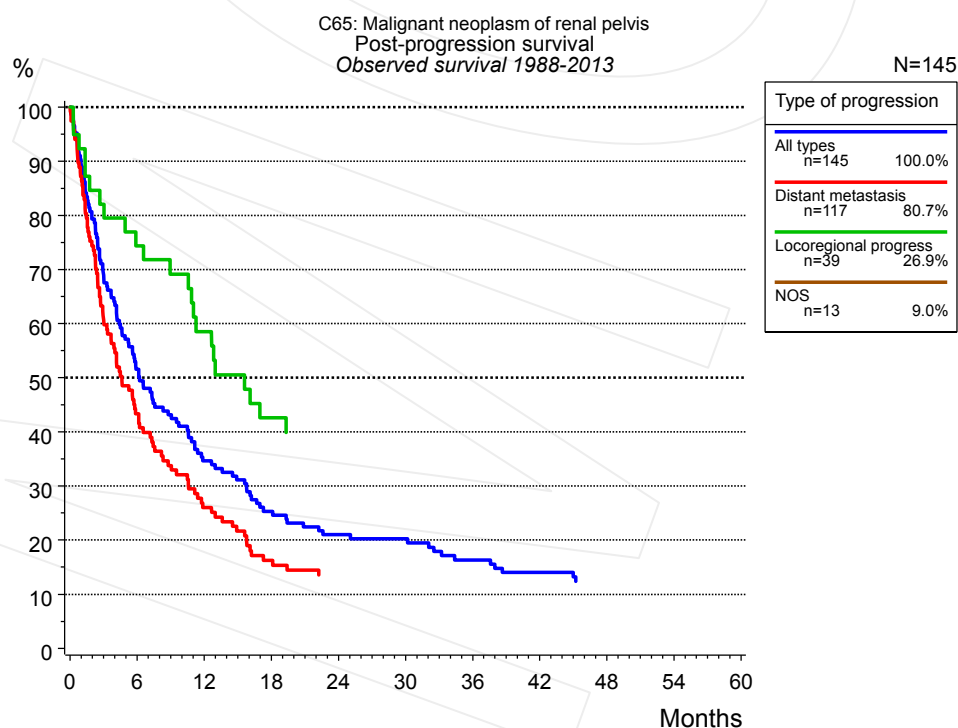


Figure 5a. Observed post-progression survival of 145 patients with renal pelvis cancer diagnosed between 1988 and 2013 (incl. M1). These 145 patients with documented progression events during their course of disease represent 30.1% of the totally 482 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=41, 8.5%). 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. Subgroups with sample size <15 are dropped from the chart.

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 potentially considered in more than one subgroup.

| Months | Type of progression | | | |
|--------|-------------------------|----------------------------------|------------------------------------|------------------|
| | All types n=145 % | Distant metastasis n=117 % | Locoregional progress n=39 % | NOS n=13 % |
| 0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 12 | 34.7 | 26.0 | 58.5 | |
| 24 | 21.0 | | | |
| 36 | 16.3 | | | |
| 48 | 12.4 | | | |

Table 5b. Observed post-progression survival of patients with renal pelvis cancer for period 1988-2013 (N=145).

Shortcuts

| | |
|-------------|---|
| MCR | Munich Cancer Registry, Germany (Tumorregister München) |
| NCI | National Cancer Institute, USA |
| SEER | Surveillance, Epidemiology, and End Results, USA |
| UICC | Union for International Cancer Control, Geneva |
| DCO | Death certificate only. The death certificate provides the only notification to the registry. |
| NA | Not available |
| NOS | Not otherwise specified |
| OS | Observed/overall survival (Kaplan-Meier estimate) |
| RS | Relative survival, compared to the general population, ratio of observed to expected survival (Ederer II method), reflecting excess mortality among cancer patients |
| AS | Assembled survival chart (observed, expected, relative) |
| PPS | Post-progression survival, survival since first relapse (Kaplan-Meier estimate) |
| progression | Date of entry: Date of first locoregional recurrence, distant metastasis, unspecified |
| | Event: Death of all causes |
| CS | Conditional survival, survival probability under the condition of surviving a given period of time |

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Index of figures and tables

| Fig./Tbl. | Page |
|---|------|
| 1a Relative survival by period of diagnosis (chart) | 2 |
| 1b Survival by period of diagnosis (table) | 2 |
| 2a Survival by gender (chart) | 3 |
| 2b Survival by gender (table) | 3 |
| 3a Relative survival by age category (chart) | 4 |
| 3b Survival by age category (table) | 4 |
| 4a Relative survival by UICC (chart) | 5 |
| 4b Survival by UICC (table) | 5 |
| 4c Relative survival by TNM staging (chart) | 6 |
| 4d Survival by TNM staging (table) | 6 |
| 5a Observed post-progression survival (chart) | 7 |
| 5b Observed post-progression survival (table) | 8 |