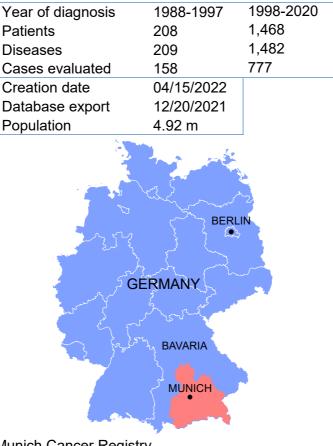
# **Munich Cancer Registry**



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## ICD-10 C65: Renal pelvis cancer



### Survival

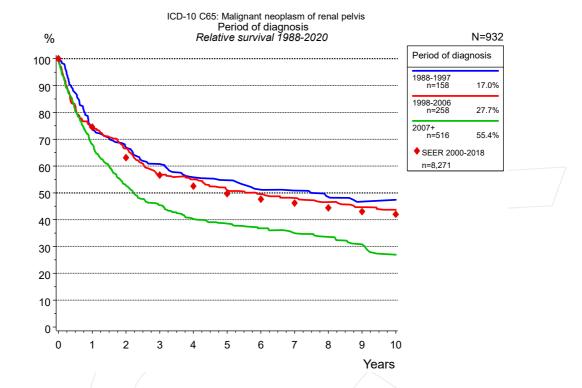
Munich Cancer Registry Cancer Registry Bavaria - Upper Bavaria Regional Center at Klinikum Grosshadern/IBE Marchioninistr. 15 Munich, 81377 Germany

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

https://www.tumorregister-muenchen.de/en/facts/surv/sC65\_E-ICD-10-C65-Renal-pelvis-cancer-survival.pdf

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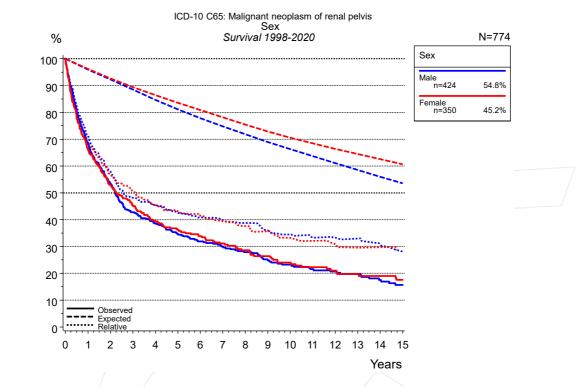
**Figure 1a.** Relative survival of patients with renal pelvis cancer by period of diagnosis. Included in the evaluation are 932 cases diagnosed between 1988 and 2020.

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 2018, 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 populationbased 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.

|        | F      | Period | of diag | gnosis | ;      |        |
|--------|--------|--------|---------|--------|--------|--------|
|        | 1988-  | 1997   | 1998-   | 2006   | 2007+  |        |
|        | n=1    | 158    | n=258   |        | n=516  |        |
| Years  | obs. % | rel. % | obs. %  | rel. % | obs. % | rel. % |
| 0      | 100.0  | 100.0  | 100.0   | 100.0  | 100.0  | 100.0  |
| 1      | 71.7   | 73.8   | 71.6    | 74.4   | 65.6   | 68.1   |
| 2      | 63.2   | 67.0   | 61.2    | 66.5   | 49.3   | 52.7   |
| 3      | 55.2   | 60.8   | 50.0    | 56.8   | 40.8   | 45.4   |
| 4      | 49.2   | 55.8   | 46.7    | 55.0   | 34.7   | 40.2   |
| 5      | 47.2   | 54.7   | 41.4    | 51.0   | 32.2   | 38.5   |
| 6      | 43.0   | 51.2   | 38.9    | 49.5   | 29.5   | 36.8   |
| 7      | 40.9   | 50.9   | 36.4    | 48.1   | 27.2   | 35.0   |
| 8      | 38.1   | 48.4   | 33.9    | 46.5   | 25.0   | 33.6   |
| 9      | 35.4   | 46.7   | 31.4    | 44.7   | 21.9   | 30.7   |
| 10     | 35.4   | 47.4   | 29.8    | 43.7   | 19.2   | 27.0   |
| Median | 3.8    |        | 3.0     |        | 1.9    |        |
|        |        |        |         |        |        |        |

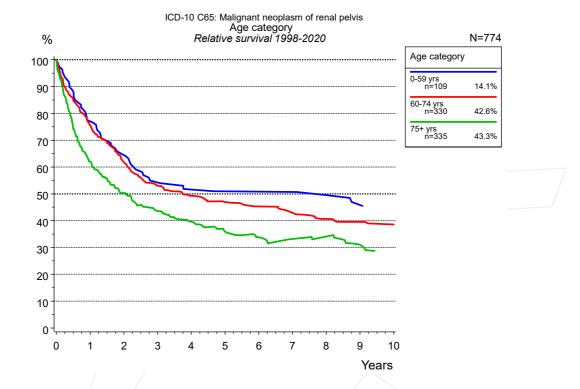
**Table 1b.** Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by period of diagnosis for period 1988-2020 (N=932).



**Figure 2a.** Survival of patients with renal pelvis cancer by sex. Included in the evaluation are 774 cases diagnosed between 1998 and 2020.

|        |        | Sex    |        |        |  |
|--------|--------|--------|--------|--------|--|
|        | Ma     | le     | Ferr   | nale   |  |
|        | n=4    | 24     | n=3    | 350    |  |
| Years  | obs. % | rel. % | obs. % | rel. % |  |
| 0      | 100.0  | 100.0  | 100.0  | 100.0  |  |
| 1      | 68.7   | 71.4   | 66.2   | 68.7   |  |
| 2      | 53.6   | 57.9   | 53.0   | 56.8   |  |
| 3      | 42.8   | 48.2   | 45.3   | 50.5   |  |
| 4      | 38.6   | 45.4   | 39.3   | 45.4   |  |
| 5      | 34.7   | 42.5   | 36.1   | 43.1   |  |
| 6      | 31.9   | 40.8   | 33.8   | 41.5   |  |
| 7      | 30.0   | 39.8   | 31.1   | 39.5   |  |
| 8      | 27.9   | 38.7   | 28.6   | 37.6   |  |
| 9      | 24.8   | 36.0   | 26.4   | 35.7   |  |
| 10     | 23.2   | 34.5   | 24.0   | 33.2   |  |
| 11     | 21.5   | 33.3   | 22.3   | 32.1   |  |
| 12     | 20.7   | 33.3   | 21.0   | 30.8   |  |
| 13     | 19.7   | 32.9   | 19.7   | 29.5   |  |
| 14     | 17.5   | 30.7   | 19.0   | 29.7   |  |
| 15     | 15.7   | 28.1   | 17.5   | 28.6   |  |
| Median | 2.2    |        | 2.3    | 7      |  |
|        |        |        |        |        |  |

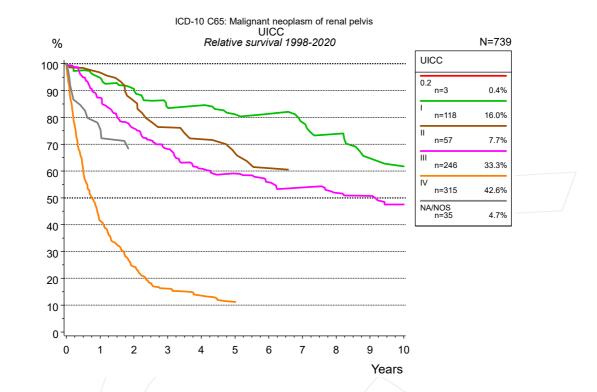
**Table 2b.** Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by sex for period 1998-2020 (N=774).



**Figure 3a.** Relative survival of patients with renal pelvis cancer by age category. Included in the evaluation are 774 cases diagnosed between 1998 and 2020.

|        |        | Age    | categ  | ory    |         |        |  |
|--------|--------|--------|--------|--------|---------|--------|--|
|        | 0-59   | yrs    | 60-74  | 4 yrs  | 75+ yrs |        |  |
|        | n=109  |        | n=3    | 30     | n=335   |        |  |
| Years  | obs. % | rel. % | obs. % | rel. % | obs. %  | rel. % |  |
| 0      | 100.0  | 100.0  | 100.0  | 100.0  | 100.0   | 100.0  |  |
| 1      | 77.1   | 77.0   | 74.3   | 75.5   | 57.9    | 62.0   |  |
| 2      | 64.4   | 64.4   | 59.8   | 61.8   | 43.5    | 50.3   |  |
| 3      | 54.1   | 54.2   | 50.1   | 53.1   | 34.5    | 43.6   |  |
| 4      | 50.7   | 51.6   | 45.6   | 49.3   | 28.4    | 39.6   |  |
| 5      | 49.6   | 50.9   | 42.6   | 46.9   | 23.3    | 35.9   |  |
| 6      | 49.6   | 50.8   | 39.9   | 45.3   | 20.0    | 33.8   |  |
| 7      | 49.6   | 50.6   | 37.0   | 43.0   | 17.5    | 33.1   |  |
| 8      | 46.9   | 49.5   | 34.0   | 40.7   | 16.1    | 34.1   |  |
| 9      | 44.1   | 45.8   | 32.2   | 39.5   | 12.6    | 31.0   |  |
| 10     | 42.6   | 45.5   | 30.6   | 38.6   |         |        |  |
| Median | 4.7    |        | 3.1    |        | 1.5     |        |  |

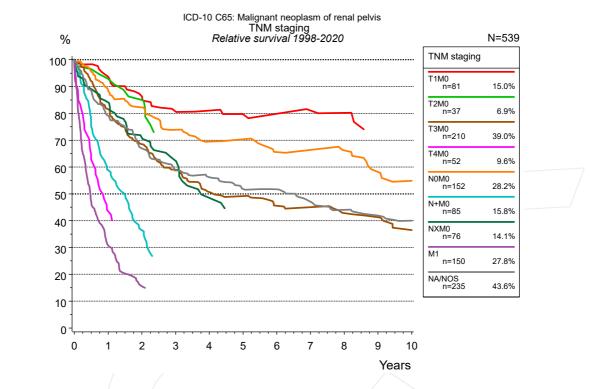
**Table 3b.** Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by age category for period 1998-2020 (N=774).



**Figure 4a.** Relative survival of patients with renal pelvis cancer by UICC. For 743 of 774 cases diagnosed between 1998 and 2020 valid data could be obtained for this item. For a total of 739 cases an evaluable classification was established. The grey line represents the subgroup of 35 patients with missing values regarding UICC (4.5 % of 774 patients, the percent values of all other categories are related to n=739). Subgroups with sample size <20 are omitted from the chart.

|  | UICC   |        |        |        |        |        |        |        |        |        |        |  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|  |        | I      |        | I      | II     |        | III    |        | IV     |        | NA/NOS |  |
|  |        | n=1    | 18     | n=     | 57     | n=246  |        | n=315  |        | n=35   |        |  |
|  | Years  | obs. % | rel. % |  |
|  | 0      | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  | 100.0  |  |
|  | 1      | 92.1   | 94.8   | 92.8   | 96.7   | 84.0   | 87.4   | 40.3   | 41.5   | 74.2   | 75.8   |  |
|  | 2      | 84.8   | 90.6   | 79.9   | 86.1   | 70.1   | 75.9   | 22.9   | 24.4   | 62.3   | 67.2   |  |
|  | 3      | 75.0   | 83.7   | 68.3   | 76.3   | 60.4   | 68.2   | 14.9   | 16.2   |        |        |  |
|  | 4      | 73.0   | 84.5   | 62.1   | 71.9   | 52.0   | 60.9   | 11.9   | 13.5   |        |        |  |
|  | 5      | 66.6   | 81.1   | 55.9   | 66.7   | 48.4   | 59.1   | 9.8    | 11.2   |        |        |  |
|  | 6      | 64.3   | 81.3   | 49.5   | 61.1   | 44.2   | 55.8   |        |        |        |        |  |
|  | 7      | 59.5   | 78.1   | 47.3   | 60.7   | 41.0   | 53.8   |        |        |        |        |  |
|  | 8      | 54.6   | 73.8   | 47.3   | 61.1   | 38.1   | 51.9   |        |        |        |        |  |
|  | 9      | 46.0   | 64.7   |        |        | 36.4   | 50.7   |        |        |        |        |  |
|  | 10     | 42.9   | 61.7   |        |        | 33.1   | 47.5   |        |        |        |        |  |
|  | Median | 8.6    |        | 5.5    |        | 4.3    |        | 0.7    |        |        |        |  |
|  |        |        |        |        |        |        |        |        |        |        |        |  |

**Table 4b.** Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by UICC for period 1998-2020 (N=739).



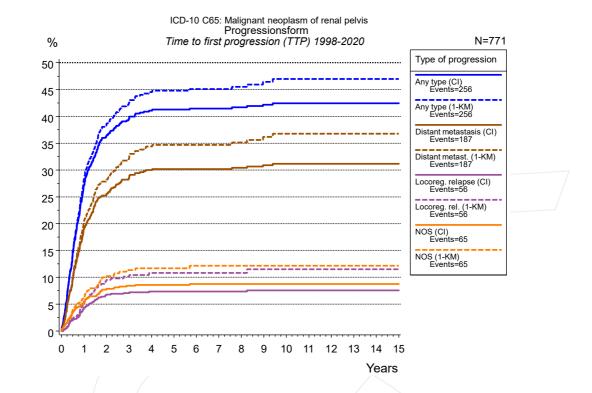
**Figure 4c.** Relative survival of patients with renal pelvis cancer by TNM staging. For 743 of 774 cases diagnosed between 1998 and 2020 valid data could be obtained for this item. For a total of 539 cases an evaluable classification was established. The accumulated percentage exceeds the 100 % value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 235 patients with missing values regarding TNM staging (30.4 % of 774 patients, the percent values of all other categories are related to n=539).

|        |        |        |        |        |        | TN     | M stagi | ing    |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|
|        | T1I    | M0     | T2     | M0     | T3I    | V0     | T4I     | M0     | N0     | M0     | N+     | M0     | NX     | M0     |
|        | n=     | 81     | n=     | 37     | n=2    | 210    | n=      | 52     | n=1    | 52     | n=     | 85     | n=     | 76     |
| 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      | 91.2   | 93.7   | 88.9   | 92.9   | 78.7   | 81.5   | 42.3    | 43.4   | 85.8   | 88.6   | 57.2   | 58.8   | 81.4   | 84.1   |
| 2      | 80.9   | 86.3   | 80.5   | 85.0   | 63.8   | 68.5   |         |        | 76.8   | 82.2   | 35.0   | 36.4   | 66.3   | 70.9   |
| 3      | 72.6   | 80.7   |        |        | 53.2   | 59.0   |         |        | 66.4   | 73.9   |        |        | 57.0   | 62.3   |
| 4      | 69.6   | 81.1   |        |        | 44.1   | 50.6   |         |        | 60.1   | 69.5   |        |        | 43.1   | 48.5   |
| 5      | 64.9   | 79.7   |        |        | 41.6   | 49.1   |         |        | 59.2   | 70.4   |        |        | 37.5   | 43.9   |
| 6      | 63.2   | 79.9   |        |        | 37.0   | 45.5   |         |        | 52.9   | 65.6   |        |        |        |        |
| 7      | 61.2   | 81.1   |        |        | 35.6   | 45.0   |         |        | 52.0   | 66.4   |        |        |        |        |
| 8      | 59.1   | 80.2   |        |        | 32.5   | 42.8   |         |        | 49.8   | 66.2   |        |        |        |        |
| 9      |        |        |        |        | 30.9   | 41.2   |         |        | 43.1   | 58.2   |        |        |        |        |
| 10     |        |        |        |        | 26.9   | 36.5   |         |        | 38.9   | 54.9   |        |        |        |        |
| Median | 8.7    |        |        |        | 3.2    |        | 0.8     | $\geq$ | 7.9    |        | 1.3    |        | 3.2    |        |
|        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |

| TNM staging |           |        |        |        |  |  |  |  |
|-------------|-----------|--------|--------|--------|--|--|--|--|
| cont'd      | cont'd M1 |        | NA/N   | NOS    |  |  |  |  |
|             | n=1       | 50     | n=2    | 235    |  |  |  |  |
| Years       | obs. %    | rel. % | obs. % | rel. % |  |  |  |  |
| 0           | 100.0     | 100.0  | 100.0  | 100.0  |  |  |  |  |
| 1           | 30.2      | 30.7   | 76.0   | 79.2   |  |  |  |  |
| 2           | 14.7      | 15.5   | 61.7   | 66.9   |  |  |  |  |
| 3           |           |        | 51.6   | 58.7   |  |  |  |  |
| 4           |           |        | 47.4   | 56.2   |  |  |  |  |
| 5           |           |        | 42.0   | 51.8   |  |  |  |  |
| 6           |           |        | 40.5   | 51.7   |  |  |  |  |
| 7           |           |        | 35.5   | 47.0   |  |  |  |  |
| 8           |           |        | 32.0   | 44.0   |  |  |  |  |
| 9           |           |        | 29.0   | 41.9   |  |  |  |  |
| 10          |           |        | 26.9   | 40.0   |  |  |  |  |
| Median      | 0.5       |        | 3.4    | /      |  |  |  |  |

**Table 4d.** Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by TNM staging for period 1998-2020 (N=539).



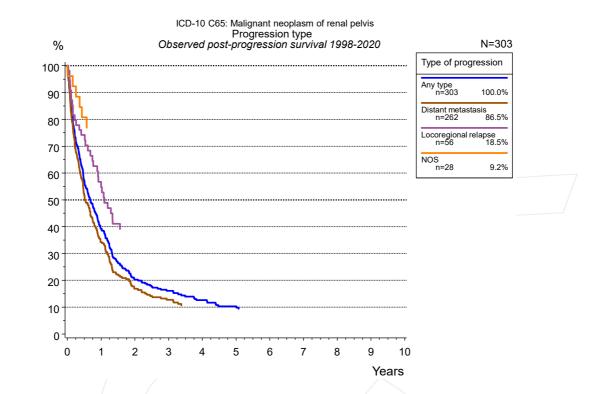


**Figure 5a.** Time to first progression of 771 patients with renal pelvis cancer diagnosed between 1998 and 2020 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

|         | Type of progression |                     |                               |                               |                          |                         |          |  |  |  |
|---------|---------------------|---------------------|-------------------------------|-------------------------------|--------------------------|-------------------------|----------|--|--|--|
|         | Any type (CI)       | Any type (1-<br>KM) | Distant<br>metastasis<br>(CI) | Distant<br>metast. (1-<br>KM) | Locoreg.<br>relapse (CI) | Locoreg. rel.<br>(1-KM) | NOS (CI) |  |  |  |
| N       | 627                 | 627                 | 627                           | 627                           | 771                      | 771                     | 771      |  |  |  |
| Events  | 256                 | 256                 | 187                           | 187                           | 56                       | 56                      | 65       |  |  |  |
| compet. | 198                 |                     | 255                           |                               | 513                      |                         | 501      |  |  |  |
| Years   | %                   | %                   | %                             | %                             | %                        | %                       | %        |  |  |  |
| 0       | 0.0                 | 0.0                 | 0.0                           | 0.0                           | 0.0                      | 0.0                     | 0.0      |  |  |  |
| 1       | 27.0                | 28.1                | 18.9                          | 20.4                          | 4.2                      | 5.3                     | 5.3      |  |  |  |
| 2       | 36.3                | 38.5                | 25.6                          | 28.3                          | 6.8                      | 9.5                     | 7.7      |  |  |  |
| 3       | 39.4                | 42.4                | 28.4                          | 32.0                          | 7.1                      | 10.1                    | 8.4      |  |  |  |
| 4       | 41.1                | 44.5                | 30.0                          | 34.4                          | 7.4                      | 10.8                    | 8.6      |  |  |  |
| 5       | 41.3                | 44.8                | 30.2                          | 34.7                          | 7.4                      | 10.8                    | 8.6      |  |  |  |
| 6       | 41.5                | 45.1                | 30.2                          | 34.7                          | 7.4                      | 10.8                    | 8.7      |  |  |  |
| 7       | 41.5                | 45.1                | 30.2                          | 34.7                          | 7.4                      | 10.8                    | 8.7      |  |  |  |
| 8       | 41.7                | 45.5                | 30.4                          | 35.1                          | 7.4                      | 10.8                    | 8.7      |  |  |  |
| 9       | 42.2                | 46.4                | 30.9                          | 36.2                          | 7.6                      | 11.5                    | 8.7      |  |  |  |
| 10      | 42.4                | 47.0                | 31.2                          | 36.8                          | 7.6                      | 11.5                    | 8.7      |  |  |  |
| 11      | 42.4                | 47.0                | 31.2                          | 36.8                          | 7.6                      | 11.5                    | 8.7      |  |  |  |
| 12      | 42.4                | 47.0                | 31.2                          | 36.8                          | 7.6                      | 11.5                    | 8.7      |  |  |  |
| 13      | 42.4                | 47.0                | 31.2                          | 36.8                          | 7.6                      | 11.5                    | 8.7      |  |  |  |
| 14      | 42.4                | 47.0                | 31.2                          | 36.8                          | 7.6                      | 11.5                    | 8.7      |  |  |  |
| 15      | 42.4                | 47.0                | 31.2                          | 36.8                          | 7.6                      | 11.5                    | 8.7      |  |  |  |

|  |         | ype of<br>gression |
|--|---------|--------------------|
|  | cont'd  | NOS (1-KM)         |
|  | N       | 771                |
|  | Events  | 65                 |
|  | compet. |                    |
|  | Years   | %                  |
|  | 0       | 0.0                |
|  | 1       | 6.2                |
|  | 2       | 10.0               |
|  | 3       | 11.3               |
|  | 4       | 11.7               |
|  | 5       | 11.7               |
|  | 6       | 12.1               |
|  | 7       | 12.1               |
|  | 8       | 12.1               |
|  | 9       | 12.1               |
|  | 10      | 12.1               |
|  | 11      | 12.1               |
|  | 12      | 12.1               |
|  | 13      | 12.1               |
|  | 14      | 12.1               |
|  | 15      | 12.1               |

**Table 5b.** Time to first progression of patients with renal pelvis cancer for period 1998-2020 (N=771), also showing the total of progression events (Events) and of deaths as competing risk (compet.).

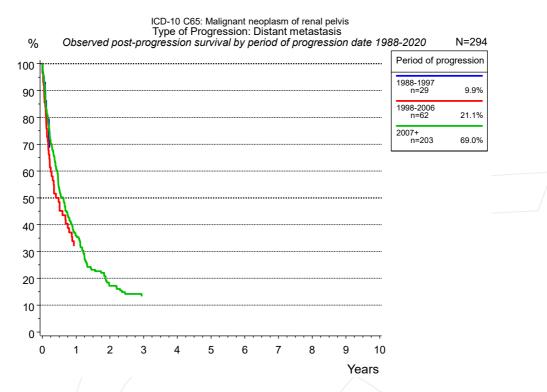


**Figure 5c.** Observed post-progression survival of 303 patients with renal pelvis cancer diagnosed between 1998 and 2020. These 303 patients with documented progression events during their course of disease represent 39.3 % of the totally 771 evaluated cases (incl. M1, n=144, 18.7 %). Patients with cancer relapse documented via death certificates only were excluded (n=97, 12.6 %). Multiple progression types on different sites are included in the evaluation even when not occuring 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 potientially considered in more than one subgroup.

| Type of progression |                   |                                |                                 |             |  |  |
|---------------------|-------------------|--------------------------------|---------------------------------|-------------|--|--|
|                     | Any type<br>n=303 | Distant<br>metastasis<br>n=262 | Locoregional<br>relapse<br>n=56 | NOS<br>n=28 |  |  |
| Years               | %                 | %                              | %                               | %           |  |  |
| 0                   | 100.0             | 100.0                          | 100.0                           | 100.0       |  |  |
| 1                   | 39.2              | 34.3                           | 54.7                            |             |  |  |
| 2                   | 20.3              | 16.9                           |                                 |             |  |  |
| 3                   | 16.0              | 12.7                           |                                 |             |  |  |
| 4                   | 12.6              |                                |                                 |             |  |  |
| 5                   | 10.3              |                                |                                 |             |  |  |
|                     |                   |                                |                                 |             |  |  |

**Table 5d.** Observed post-progression survival of patients with renal pelvis cancer for period 1998-2020 (N=303).



**Figure 5e.** Observed post-progression (distant metastasis) survival of 294 patients with renal pelvis cancer diagnosed between 1988 and 2020 by period of progression.

|       | Period of progression |           |       |  |  |  |  |  |  |
|-------|-----------------------|-----------|-------|--|--|--|--|--|--|
|       | 1988-1997             | 1998-2006 | 2007+ |  |  |  |  |  |  |
|       | n=29                  | n=62      | n=203 |  |  |  |  |  |  |
| Years | %                     | %         | %     |  |  |  |  |  |  |
| 0     | 100.0                 | 100.0     | 100.0 |  |  |  |  |  |  |
| 1     |                       |           | 35.9  |  |  |  |  |  |  |
| 2     |                       |           | 17.2  |  |  |  |  |  |  |
| 3     |                       |           | 13.5  |  |  |  |  |  |  |
|       |                       |           |       |  |  |  |  |  |  |

**Table 5f.** Observed post-progression (distant metastasis) survival of patients with renal pelvis cancer for period 1988-2020 by period of progression (N=294).

#### Shortcuts

| MCR                 | Munich Cancer Registry, Germany  |   |  |  |  |  |  |  |
|---------------------|--|---|--|--|--|--|--|--|
| NCI<br>SEER<br>UICC | National Cancer Institute, USA<br>Surveillance, Epidemiology, and End Results, USA<br>Union for International Cancer Control, Geneva |   |  |  |  |  |  |  |
| DCO<br>NA<br>NOS    | Death certificate only<br>Not available<br>Not otherwise specified   | Death certificate provides the only notification to the registry.   |  |  |  |  |  |  |
| OS                  | Overall/Observed survival  | Overall/Observed survival (Kaplan-Meier estimate)<br>Date of entry: diagnosis<br>Event: death from any cause  |  |  |  |  |  |  |
| RS                  | Relative survival  | Survival compared to "general population",<br>ratio of observed to expected survival (Ederer II method),<br>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<br>Date of entry: diagnosis<br>Event: (progression / relapse): first local-, lymph node recurrence,<br>distant metastasis or unspecified progression  |  |  |  |  |  |  |
|                     | 1-KM   | 1 minus Kaplan-Meier estimator<br>("inverse" Kaplan-Meier estimator)  |  |  |  |  |  |  |
|                     | CI   | Cumulative incidence<br>Death as competing risk (according to Kalbfleisch und Prentice)   |  |  |  |  |  |  |
| PPS                 | Post-progression survival  | Survival since first progression / relapse (Kaplan-Meier estimate)<br>Date of entry (progression / relapse): first local-, lymph node<br>recurrence, distant metastasis or unspecified progression<br>Event: death from any cause |  |  |  |  |  |  |

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