

Munich Cancer Registry



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

Cancer statistics: Survival

C65: Renal pelvis cancer

Year of diagnosis	1979-1987	1988-1997	1998-2011
Patients	36	208	776
Diseases	37	209	782
Creation date	04/01/2013		
Export date	01/03/2013		
Population	4.5 m		



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

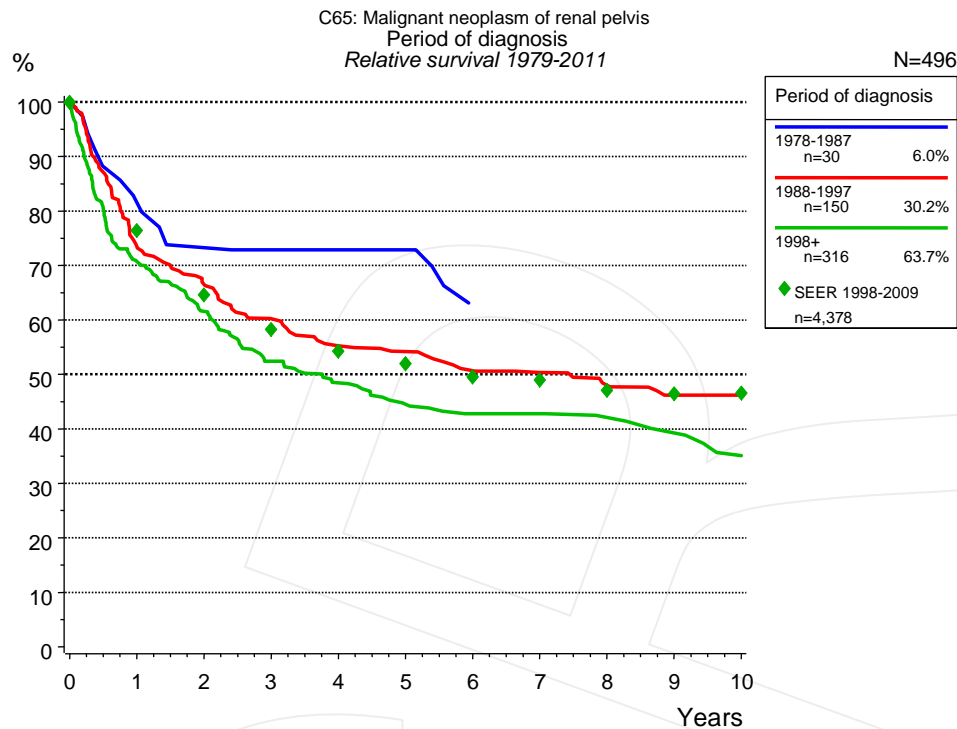


Figure 1a. Relative survival of patients with renal pelvis cancer by period of diagnosis. Included in the evaluation are 496 cases diagnosed between 1979 and 2011.

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					
	1978-1987 n=30		1988-1997 n=150		1998+ n=316	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	80.0	81.5	71.3	73.4	68.1	70.7
2	70.0	73.3	62.7	66.5	56.9	61.5
3	66.7	72.9	54.7	60.2	46.5	52.5
4	63.3	72.9	48.7	55.2	41.4	48.5
5	63.3	72.9	46.7	54.2	36.7	44.5
6	50.0	63.0	42.5	50.7	34.0	42.8
7			40.5	50.4	34.0	42.8
8			37.7	48.0	31.9	42.1
9			35.0	46.2	29.4	39.3
10			35.0	46.2	25.4	35.1

Table 1b. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by period of diagnosis for period 1979-2011 (N=496).

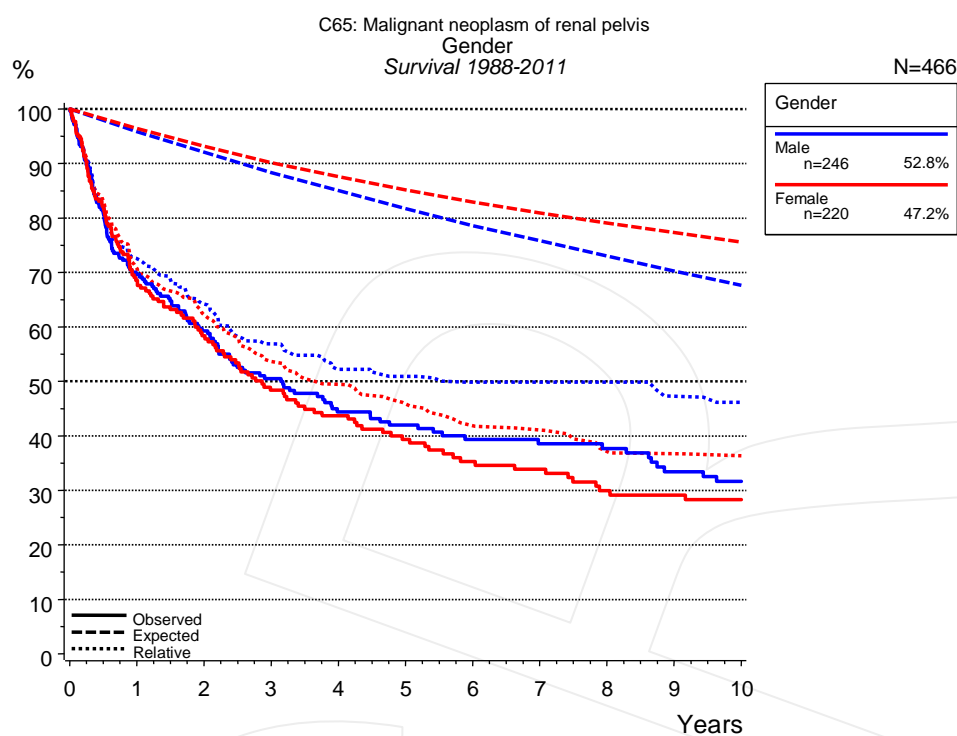


Figure 2a. Survival of patients with renal pelvis cancer by gender. Included in the evaluation are 466 cases diagnosed between 1988 and 2011.

Years	Gender			
	Male n=246		Female n=220	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	69.6	72.5	68.6	70.7
2	59.3	64.2	58.3	62.2
3	50.5	56.9	48.4	53.6
4	44.4	52.2	43.7	49.5
5	42.0	50.9	39.4	45.9
6	39.3	49.8	35.3	41.9
7	38.6	49.8	33.9	41.1
8	37.7	49.8	29.9	37.1
9	33.4	47.3	29.1	36.7
10	31.7	46.2	28.3	36.3

Table 2b. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by gender for period 1988-2011 (N=466).

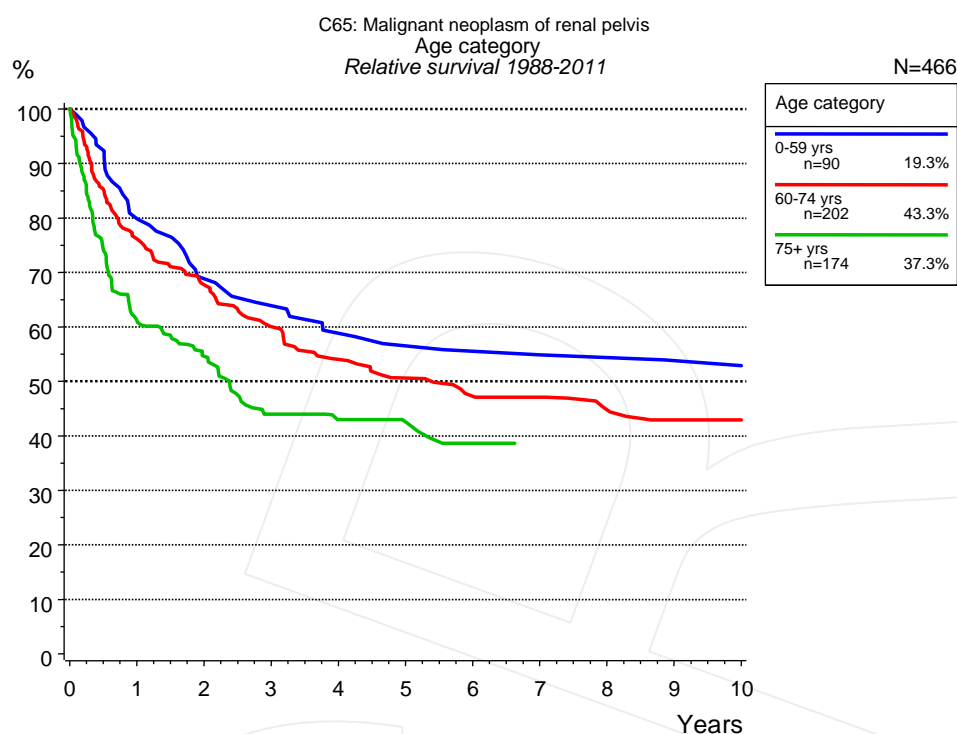


Figure 3a. Relative survival of patients with renal pelvis cancer by age category. Included in the evaluation are 466 cases diagnosed between 1988 and 2011.

Years	Age category					
	0-59 yrs n=90		60-74 yrs n=202		75+ yrs n=174	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	80.5	79.8	74.8	76.1	56.7	61.0
2	68.6	68.9	65.4	67.7	46.2	54.6
3	63.5	63.9	56.3	60.0	33.9	44.0
4	58.1	58.8	49.7	54.0	29.7	43.0
5	55.4	56.5	45.4	50.6	26.9	42.5
6	53.9	55.5	41.6	47.3	22.6	38.6
7	52.3	54.9	40.8	47.1	21.3	38.6
8	52.3	54.4	37.2	44.8		
9	50.6	53.8	34.4	42.9		
10	50.6	52.9	33.4	42.9		

Table 3b. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by age category for period 1988-2011 (N=466).

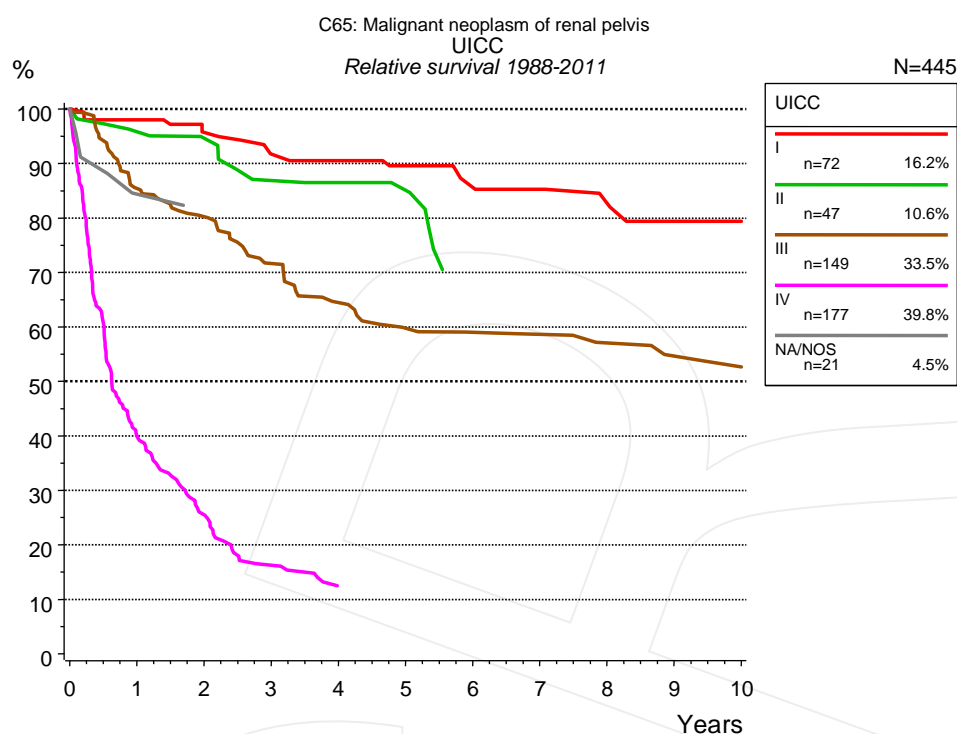


Figure 4a. Relative survival of patients with renal pelvis cancer by UICC. For 452 of 466 cases diagnosed between 1988 and 2011 valid data could be obtained for this item. For a total of 445 cases an evaluable classification was established. The grey line represents the subgroup of 21 patients with missing values regarding UICC (4.5% of 466 patients, the percent values of all other categories are related to n=445).

		UICC									
		I n=72		II n=47		III n=149		IV n=177		NA/NOS n=21	
Years		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	93.6	95.8	82.3	85.4	38.9	40.0	80.7	84.3
2		88.6	95.7	89.0	94.6	74.5	80.2	24.3	25.5		
3		82.1	91.7	79.5	86.9	63.9	71.7	15.0	16.3		
4		80.3	90.5	76.7	86.5	55.5	64.5	10.8	12.5		
5		76.4	89.6	73.9	85.1	49.6	59.8				
6		72.2	85.6	58.1	70.0	47.4	59.0				
7		70.1	85.3	58.1	69.0	46.2	58.7				
8		65.7	82.7			43.4	57.1				
9		61.0	79.4			40.5	54.6				
10		61.0	79.4			39.0	52.7				

Table 4b. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by UICC for period 1988-2011 (N=445).

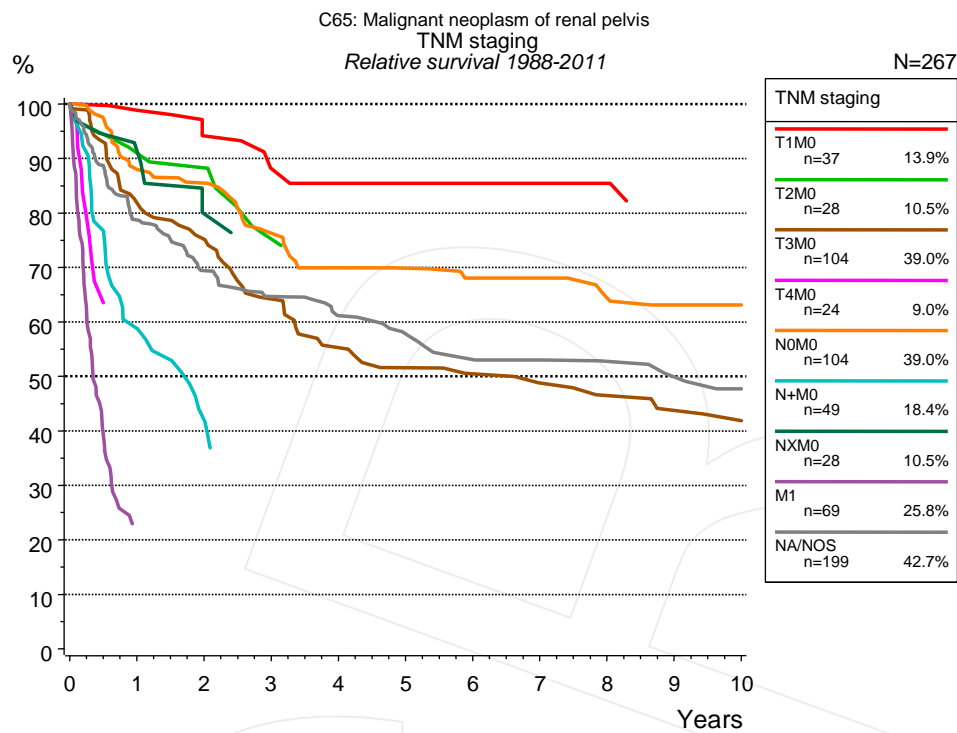


Figure 4c. Relative survival of patients with renal pelvis cancer by TNM staging. For 452 of 466 cases diagnosed between 1988 and 2011 valid data could be obtained for this item. For a total of 267 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 199 patients with missing values regarding TNM staging (42.7% of 466 patients, the percent values of all other categories are related to n=267).

TNM staging														
	T1M0 n=37		T2M0 n=28		T3M0 n=104		T4M0 n=24		N0M0 n=104		N+M0 n=49		NXM0 n=28	
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			86.3	88.0	59.0	58.8	89.0	91.3
2	86.5	94.2	85.7	88.3	71.7	75.2			81.3	85.5	41.5	42.0	73.1	79.8
3	78.0	88.1	70.2	75.2	59.1	64.2			69.6	76.3				
4	75.0	85.4	65.8	73.9	49.6	55.3			63.1	70.0				
5	75.0	85.4			44.8	51.6			60.9	69.9				
6	71.6	85.4			42.2	50.5			57.4	68.0				
7	71.6	85.4			39.5	48.8			57.4	68.0				
8	71.6	85.4			36.7	46.5			52.2	64.4				
9	64.0	81.8			33.8	43.7			49.5	63.1				
10	64.0	81.3			32.3	41.9			49.5	63.1				

cont'd Years	TNM staging			
	M1 n=69		NA/NOS n=199	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1			75.6	78.7
2			63.8	69.4
3			57.2	64.7
4			51.8	61.2
5			47.5	57.8
6			42.7	53.1
7			41.6	53.0
8			39.0	52.8
9			36.2	49.9
10			33.3	47.7

Table 4d. Observed (obs.) and relative (rel.) survival of patients with renal pelvis cancer by TNM staging for period 1988-2011 (N=443).

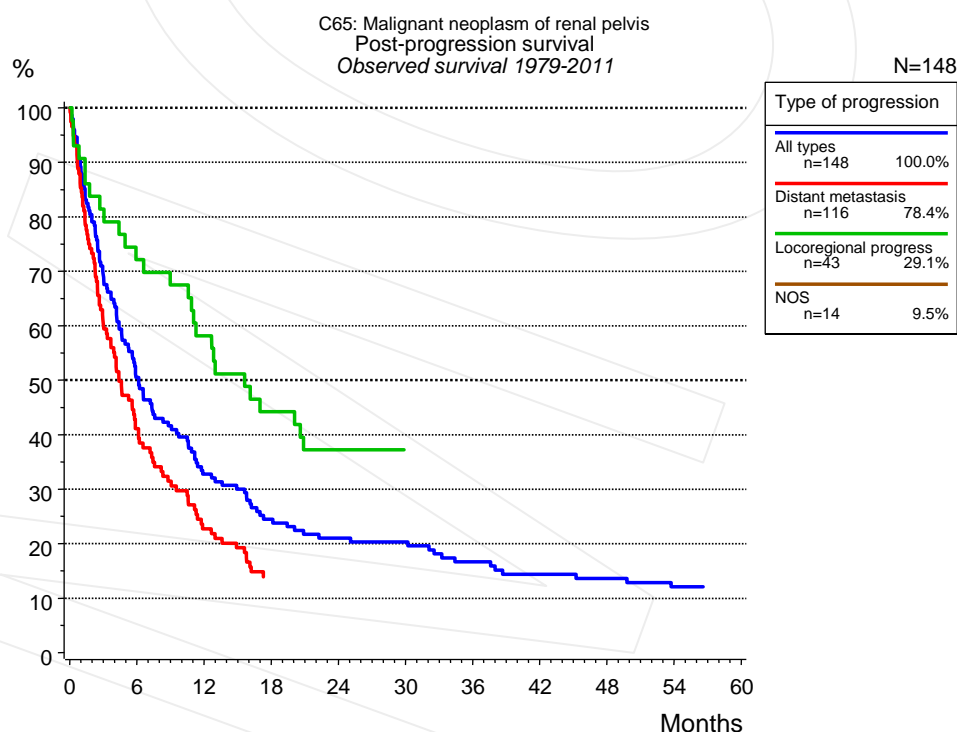


Figure 5a. Observed post-progression survival of 148 patients with renal pelvis cancer diagnosed between 1979 and 2011 (incl. M1). These 148 patients with documented progression events during their course of disease represent 29.8% of the totally 496 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=39, 7.9%). 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			NOS n=14 %
	All types n=148 %	Distant metastasis n=116 %	Locoregional progress n=43 %	
0	100.0	100.0	100.0	100.0
12	32.7	22.7	58.1	
24	21.0		37.2	
36	16.6			
48	13.6			
60	12.1			

Table 5b. Observed post-progression survival of patients with renal pelvis cancer for period 1979-2011 (N=148).

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

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