Munich Cancer Registry



- ▶ Incidence and Mortality
- ▶ Selection Matrix
- ▶ Homepage
- ▶ Deutsch

ICD-10 C61: Prostate cancer

Survival

Year of diagnosis	1988-1997	1998-2014
Patients	7,399	46,513
Diseases	7,399	46,514
Cases evaluated	6,616	37,880
Creation date	03/02/2016	
Export date	12/23/2015	
Population (males)	2.28 m	



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

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

 $http://www.tumorregister-muenchen.de/en/facts/surv/sC61__E-ICD-10-C61-Prostate-cancer-survival.pdf\\$

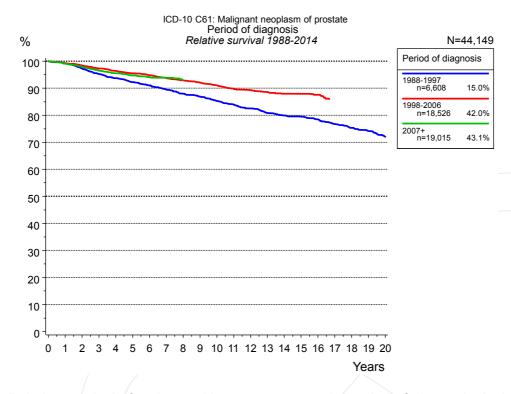


Figure 1a. Relative survival of patients with prostate cancer by period of diagnosis. Included in the evaluation are 44,149 cases diagnosed between 1988 and 2014.

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.

	F	Period	of diag	gnosis	Period of diagnosis							
	1988-	1997	1998-	2006	200)7+						
	n=6,	608	n=18	,526	n=19	,015						
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %						
0	100.0	100.0	100.0	100.0	100.0	100.0						
1	94.4	99.1	95.9	99.3	96.1	99.0						
2	88.2	97.3	91.8	98.4	92.1	97.9						
3	82.4	95.3	87.7	97.3	87.9	96.5						
4	77.2	93.7	83.8	96.4	84.2	95.5						
5	72.3	92.2	80.1	95.5	80.6	94.7						
6	67.9	91.0	76.6	94.8	77.2	94.0						
7	63.6	89.5	72.9	93.7	74.3	93.9						
8	59.5	87.9	69.4	92.9								
9	55.9	86.9	66.0	92.1								
10	52.1	85.3	62.5	91.1								
11	48.7	84.0	58.9	89.8								
12	45.5	82.5	55.9	89.3								
13	42.0	80.8	52.6	88.5								
14	39.3	79.9	49.7	87.9								
15	36.9	79.4	47.2	87.9								
16	34.2	78.4	44.4	87.6								
17	31.4	76.7										
18	29.0	75.3										
19	26.5	74.1										
20	23.9	72.0										

Table 1b. Observed (obs.) and relative (rel.) survival of patients with prostate cancer by period of diagnosis for period 1988-2014 (N=44,149).

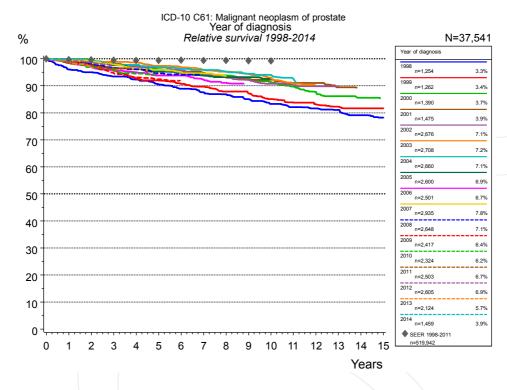


Figure 1c. Relative survival of patients with prostate cancer by year of diagnosis. Included in the evaluation are 37,541 cases diagnosed between 1998 and 2014.

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 2011, and are represented by gray diamonds in order to facilitate comparisons between MCR and SEER.

						Year o	of diag	nosis						
	19	98	19	99	20	00	20	01	20	02	20	03	20	04
	n=1,	254	n=1,	,262	n=1,390		n=1,475		n=2,676		n=2,708		n=2,660	
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	92.1	96.0	95.2	99.0	96.5	99.9	94.9	98.3	96.1	99.6	96.8	99.6	97.0	99.9
2	87.6	95.0	90.4	97.7	92.2	99.3	90.9	97.7	92.1	98.9	93.2	99.5	93.2	99.3
3	82.7	93.4	85.0	95.5	87.9	98.3	86.7	96.5	88.0	98.0	89.7	98.8	89.0	97.9
4	78.4	92.3	79.3	92.7	83.8	97.3	83.2	96.2	84.1	97.0	86.3	98.7	86.0	97.7
5	73.7	90.5	75.8	92.0	79.4	96.1	79.6	95.2	81.1	96.8	82.2	97.4	82.2	96.8
6	69.6	88.9	71.7	90.7	75.6	95.1	76.7	95.2	77.0	95.7	78.8	96.9	78.9	96.2
7	65.8	87.6	68.3	89.7	72.1	93.9	73.0	94.8	73.0	94.3	75.1	95.9	75.7	95.9
8	62.5	86.9	64.5	87.9	68.7	93.8	69.0	93.4	69.2	93.0	71.8	95.2	72.4	95.2
9	58.6	85.0	61.0	87.1	65.2	92.8	65.4	92.3	65.7	92.1	68.3	94.5	69.0	94.4
10	54.9	83.3	57.1	85.1	61.3	91.4	62.8	92.2	62.4	90.7	64.3	92.9	65.7	94.0
11	51.7	82.1	53.8	83.8	57.6	89.7	59.3	91.0	59.1	90.5	60.0	90.8	62.5	92.5
12	48.9	81.6	51.0	83.1	53.7	87.7	56.5	91.0	56.4	89.8				
13	46.3	81.0	48.1	82.3	50.4	86.1	52.7	89.4						
14	43.0	79.1	45.6	81.6	47.4	85.5								
15	40.2	78.2	43.9	81.6										

	Year of diagnosis													
cont'd	20	2005 2006		2007 2008		2009		2010		2011				
	n=2,	600	n=2,501		n=2,935		n=2,648		n=2,417		n=2,324		n=2,503	
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	96.4	99.5	95.5	98.5	96.4	99.3	96.1	99.0	95.9	98.8	95.9	98.9	95.8	98.7
2	92.6	98.7	91.1	97.1	93.3	99.1	92.1	98.0	91.4	97.1	91.2	96.9	91.6	97.5
3	88.7	97.6	87.1	95.8	89.3	97.9	87.9	96.6	86.4	94.7	87.3	95.8	87.7	96.4
4	84.4	96.3	83.5	95.0	85.1	96.5	84.8	96.0	82.4	93.1	83.3	94.5		
5	80.9	95.3	79.7	93.8	81.9	95.9	80.4	94.5	79.0	92.4				
6	77.4	94.7	76.9	93.8	78.2	95.0	77.1	94.1						
7	73.8	93.8	72.6	92.2	75.0	94.5								
8	70.9	93.2	68.9	91.1										
9	67.7	93.2												

	Year of diagnosis										
cont'd	20	12	20	13	2014						
	n=2,	605	n=2,	124	n=1,459						
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %					
0	100.0	100.0	100.0	100.0	100.0	100.0					
1	96.2	99.2	95.7	98.7	97.3	99.7					
2	92.6 98.6		91.3	96.9							

Table 1d. Observed (obs.) and relative (rel.) survival of patients with prostate cancer by year of diagnosis for period 1998-2014 (N=37,541).

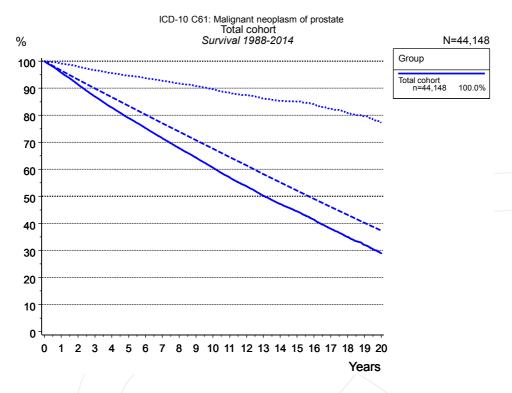


Figure 2a. Observed, expected and relative survival of the total cohort with prostate cancer. Included in the evaluation are 44,148 cases diagnosed between 1988 and 2014.

Group			
	Total of	cohort	
	n=44	,148	
Years	obs. %		
0	100.0	100.0	
1	95.7	99.2	
2	91.4	98.0	
3	86.9	96.7	
4	82.9	95.6	
5	78.9	94.6	
6	75.2	93.8	
7	71.5	92.7	
8	67.8	91.8	
9	64.3	90.9	
10	60.6	89.7	
11	57.0	88.3	
12	53.8	87.5	
13	50.2	86.2	
14	47.2	85.3	
15	44.5	85.1	
16	41.4	84.2	
17	38.0	82.4	
18	35.0	80.9	
19	32.0	79.6	
20	29.0	77.3	

Table 2b. Observed (obs.) and relative (rel.) survival of the total cohort with prostate cancer for period 1988-2014 (N=44,148).

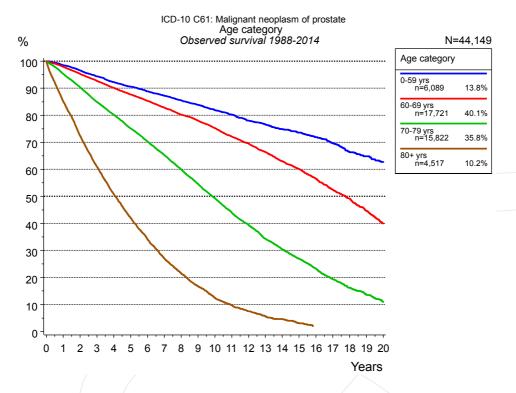


Figure 3a. Observed survival of patients with prostate cancer by age category. Included in the evaluation are 44,149 cases diagnosed between 1988 and 2014.

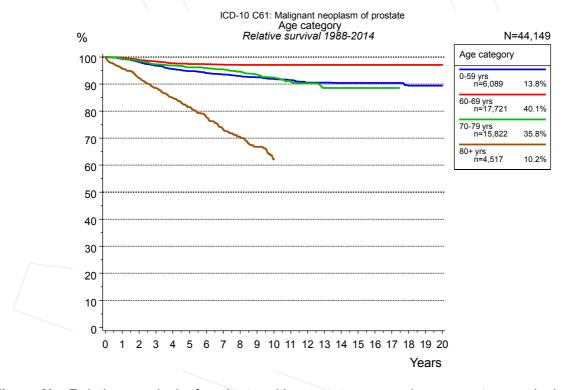


Figure 3b. Relative survival of patients with prostate cancer by age category. Included in the evaluation are 44,149 cases diagnosed between 1988 and 2014.

Age category											
	0-59	yrs	60-69	9 yrs	70-79	9 yrs	+08	yrs			
	n=6,	089	n=17	,721	n=15	,822	n=4,517				
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	98.5	99.3	97.9	99.7	95.3	99.4	85.0	95.7			
2	96.6	98.2	95.3	99.0	90.4	98.6	72.4	92.2			
3	94.4	96.8	92.7	98.3	84.9	97.3	61.0	88.5			
4	92.3	95.6	90.1	97.7	80.2	96.9	50.9	85.0			
5	90.6	94.8	87.7	97.4	75.1	96.2	42.0	81.4			
6	88.8	94.1	85.3	97.3	70.3	95.9	34.1	77.6			
7	87.2	93.6	82.8	97.2	65.3	95.4	27.0	73.2			
8	85.5	93.0	80.2	97.1	60.0	94.6	21.6	70.4			
9	83.9	92.5	78.0	97.1	54.6	93.5	16.8	66.8			
10	81.9	91.9	75.3	97.1	49.3	92.4	12.5	62.1			
11	80.2	91.4	72.1	97.1	44.0	91.1					
12	78.0	90.5	69.6	97.1	39.4	90.2					
13	76.5	90.5	66.4	97.1	34.3	88.5					
14	74.8	90.5	63.0	97.1	30.4	88.5					
15	73.6	90.5	60.1	97.1	27.0	88.5					
16	71.9	90.5	56.5	97.1	23.3	88.5					
17	69.7	90.5	52.5	97.1	19.3	88.5					
18	66.4	89.4	49.2	97.1							
19	64.8	89.4	44.6	97.1							
20	62.7	89.4	40.0	97.1							

Table 3c. Observed (obs.) and relative (rel.) survival of patients with prostate cancer by age category for period 1988-2014 (N=44,149).

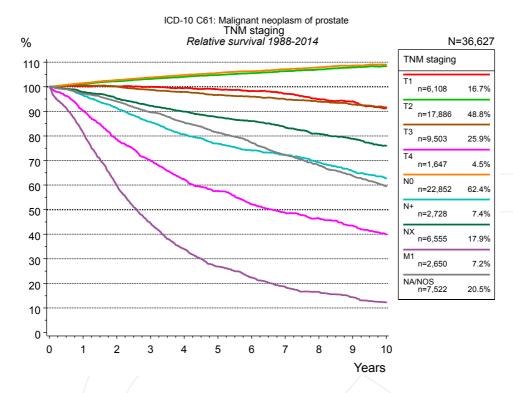


Figure 4a. Relative survival of patients with prostate cancer by TNM staging. For 36,747 of 44,149 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. For a total of 36,627 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 7,522 patients with missing values regarding TNM staging (17.0% of 44,149 patients, the percent values of all other categories are related to n=36,627).

	TNM staging													
	Т	1	Т	2	Т	3	T	T4		0	N	+	N	X
	n=6,	,108	n=17,886		n=9,503		n=1,647		n=22,852		n=2,728		n=6,555	
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	95.7	100.1	98.7	101.2	97.7	100.5	86.3	90.3	99.1	101.5	94.1	96.5	93.0	97.8
2	91.3	100.2	97.1	102.2	94.4	100.1	72.0	78.6	97.8	102.7	86.7	91.3	86.2	95.2
3	86.8	99.9	95.3	103.2	90.4	98.8	61.5	70.0	96.3	103.8	79.2	85.8	79.4	92.3
4	82.2	99.4	93.4	104.0	86.8	97.9	52.4	62.3	94.5	104.8	72.4	80.7	73.4	89.9
5	77.7	99.0	91.2	104.7	82.8	96.7	46.4	57.6	92.4	105.6	67.0	76.9	67.8	87.6
6	73.1	98.3	89.0	105.5	79.4	96.0	40.4	52.2	90.2	106.3	62.5	74.1	63.1	86.0
7	68.4	97.2	86.7	106.3	75.7	94.9	36.1	48.7	87.9	107.1	58.9	72.2	57.8	83.3
8	63.1	95.0	84.3	107.0	72.1	94.0	32.9	46.4	85.5	107.9	54.4	69.2	53.0	80.9
9	58.9	94.1	81.8	107.9	68.3	92.7	29.6	43.5	82.9	108.6	49.7	65.6	48.8	78.9
10	53.8	91.4	79.0	108.3	64.7	91.6	25.8	39.8	79.9	109.0	45.8	62.8	44.3	76.0

TNM staging											
cont'd	M	1	NA/NOS								
	n=2,	650	n=7,	522							
Years	obs. %	rel. %	obs. %	rel. %							
0	100.0	100.0	100.0	100.0							
1	77.7	81.3	92.1	97.0							
2	54.9	59.9	84.5	94.0							
3	39.1	44.5	76.3	89.7							
4	28.6	34.0	68.6	85.4							
5	21.7	26.8	61.5	81.3							
6	17.3	22.4	54.9	77.2							
7	13.7	18.5	48.3	72.3							
8	11.7	16.5	42.5	68.0							
9	9.7	14.4	37.4	63.8							
10	8.0	12.3	32.6	59.6							

Table 4b. Observed (obs.) and relative (rel.) survival of patients with prostate cancer by TNM staging for period 1988-2014 (N=69,929).



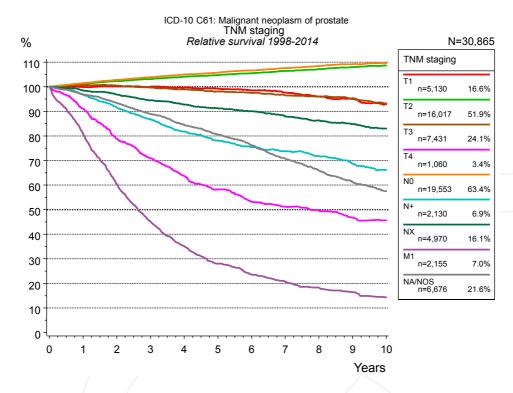


Figure 4c. Relative survival of patients with prostate cancer by TNM staging. For 30,973 of 37,541 cases diagnosed between 1998 and 2014 valid data could be obtained for this item. For a total of 30,865 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 6,676 patients with missing values regarding TNM staging (17.8% of 37,541 patients, the percent values of all other categories are related to n=30,865).

	TNM staging													
	Т	1	Т	2	Т	3	T	T4		0	N	+	NX	
	n=5,	n=5,130 n=16,017		,017	n=7,431 n=1,0		060	n=19,553		n=2,130		n=4,970		
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	95.7	99.9	98.8	101.2	98.1	100.6	87.9	91.1	99.3	101.5	94.6	96.8	94.3	98.4
2	91.8	100.1	97.5	102.3	95.5	100.5	73.4	78.9	98.2	102.8	87.3	91.6	88.9	96.8
3	87.6	100.0	95.7	103.2	92.2	99.7	63.9	71.0	96.9	103.9	80.6	86.8	83.0	94.5
4	83.3	99.7	93.9	104.1	88.9	98.9	55.2	63.7	95.3	105.0	74.0	81.8	77.9	92.8
5	78.9	99.2	91.8	104.7	85.5	98.1	48.7	58.2	93.4	105.7	68.8	78.1	73.1	91.3
6	74.6	98.6	89.7	105.5	82.3	97.5	43.2	53.3	91.4	106.6	64.6	75.6	68.7	90.0
7	69.9	97.6	87.6	106.4	78.8	96.5	39.9	51.2	89.4	107.6	61.1	73.8	63.8	87.9
8	65.0	96.0	85.3	107.2	75.7	96.0	37.2	49.6	87.1	108.4	57.4	71.7	59.6	86.3
9	61.0	95.4	82.9	108.0	72.0	95.0	33.8	46.8	84.7	109.2	53.0	68.7	55.6	84.8
10	56.0	92.9	80.3	108.6	67.9	93.2	31.6	45.6	81.8	109.6	49.3	66.2	51.5	83.0

TNM staging												
cont'd	M	1	NA/NOS									
	n=2,	155	n=6,	676								
Years	obs. %	rel. %	obs. %	rel. %								
0	100.0	100.0	100.0	100.0								
1	77.4	80.8	91.9	96.7								
2	55.8	60.5	84.2	93.4								
3	40.0	45.1	76.0	88.9								
4	30.0	35.1	68.3	84.5								
5	23.0	28.0	61.4	80.6								
6	18.6	23.7	54.6	76.2								
7	15.7	20.8	47.7	70.8								
8	13.2	18.2	41.6	65.9								
9	11.4	16.5	36.2	61.3								
10	9.6	14.4	31.7	57.5								

Table 4d. Observed (obs.) and relative (rel.) survival of patients with prostate cancer by TNM staging for period 1998-2014 (N=58,446).



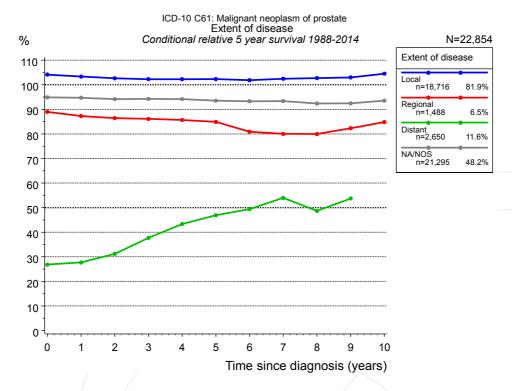


Figure 4e. Conditional relative 5-year survival of patients with prostate cancer by extent of disease. For 36,747 of 44,149 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. For a total of 22,854 cases an evaluable classification was established. The grey line represents the subgroup of 21,295 patients with missing values regarding extent of disease (48.2% of 44,149 patients, the percent values of all other categories are related to n=22,854).

			Exten	t of dis	sease				
	Loc	al	Regio	onal	Dist	ant	NA/N	IOS	
		Cond.		Cond.		Cond.	Cond		
		surv. %		surv. %		surv. %	surv. %		
Years	n	5 yrs	n	5 yrs	n	5 yrs	n	5 yrs	
0	18,716	104.2	1,488	89.0	2,650	26.8	21,295	94.9	
1	17,366	103.3	1,343	87.3	1,964	27.7	19,323	94.7	
2	15,976	102.7	1,193	86.5	1,292	31.2	17,748	94.2	
3	14,321	102.3	1,001	86.1	851	37.7	15,900	94.3	
4	12,754	102.3	831	85.7	575	43.3	14,233	94.2	
5	11,349	102.3	693	84.9	400	46.9	12,694	93.5	
6	10,231	101.9	609	80.9	291	49.4	10,966	93.3	
7	9,150	102.5	534	80.0	195	54.0	9,087	93.4	
8	7,970	102.7	445	79.9	152	48.7	7,379	92.4	
9	7,040	103.0	389	82.3	112	53.7	5,943	92.4	
10	6,140	104.5	328	84.8			4,589	93.5	

Table 4f. Conditional relative 5-year survival of patients with prostate cancer by extent of disease for period 1988-2014 (N=22,854).

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 4c). 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 102.3% (n=14,321).

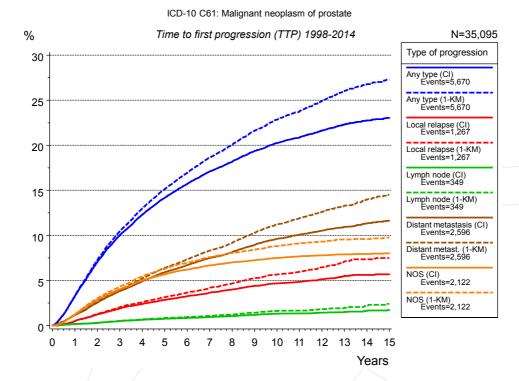


Figure 5a. Time to first progression of 35,095 patients with prostate cancer diagnosed between 1998 and 2014 (M0 only in solid cancers) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

Type of progression								
							Distant	
	Any type (CI)	Any type (1-KM)	Local relapse (CI)	Local relapse (1-KM)	Lymph node (CI)	Lymph node (1-KM)	metastasis (CI)	
	n=35,095	n=35,095	n=35,095	n=35,095	n=35,095	n=35,095	n=35,095	
Years	%	%	%	%	%	%	%	
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1	3.3	3.3	0.5	0.5	0.2	0.2	1.2	
2	7.0	7.3	1.2	1.3	0.3	0.3	2.6	
3	10.0	10.4	1.9	2.0	0.5	0.5	3.8	
4	12.3	13.0	2.4	2.6	0.6	0.7	4.9	
5	14.2	15.1	2.9	3.1	0.8	0.8	5.9	
6	15.7	16.9	3.3	3.7	0.8	0.9	6.7	
7	17.1	18.7	3.7	4.2	0.9	1.1	7.5	
8	18.2	20.0	4.0	4.7	1.0	1.2	8.1	
9	19.4	21.6	4.4	5.3	1.2	1.4	9.0	
10	20.3	22.9	4.7	5.7	1.3	1.6	9.6	
11	20.9	23.8	4.9	6.0	1.3	1.7	10.1	
12	21.6	24.9	5.1	6.5	1.4	1.8	10.5	
13	22.3	26.0	5.5	7.1	1.5	2.0	11.0	
14	22.8	26.8	5.6	7.3	1.6	2.2	11.3	
15	23.0	27.3	5.7	7.5	1.7	2.4	11.6	

Type of progression Distant						
cont'd	metast. (1- KM)	NOS (CI)	NOS (1-KM)			
	n=35,095	n=35,095	n=35,095			
Years	%	%	%			
0	0.0	0.0	0.0			
1	1.2	1.2	1.3			
2	2.6	2.9	3.0			
3	4.0	4.0	4.3			
4	5.2	5.0	5.5			
5	6.4	5.7	6.3			
6	7.4	6.2	7.0			
7	8.3	6.7	7.6			
8	9.2	7.0	8.1			
9	10.3	7.2	8.4			
10	11.2	7.5	8.8			
11	11.9	7.7	9.1			
12	12.6	7.8	9.3			
13	13.3	7.9	9.5			
14	14.0	7.9	9.6			
15	14.5	8.0	9.8			

Table 5b. Time to first progression of patients with prostate cancer for period 1998-2014 (N=35,095).

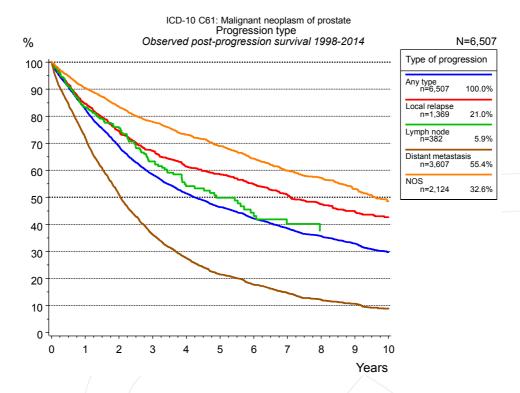


Figure 5c. Observed post-progression survival of 6,507 patients with prostate cancer diagnosed between 1998 and 2014. These 6,507 patients with documented progression events during their course of disease represent 17.5% of the totally 37,230 evaluated cases (incl. M1, n=2,135, 5.7%). Patients with cancer relapse documented via death certificates only were excluded (n=1,298, 3.5%). 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.

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	Local relapse	Lymph node	Distant metastasis	NOS
	n=6,507	n=1,369	n=382	n=3,607	n=2,124
Years	%	%	%	%	%
0	100.0	100.0	100.0	100.0	100.0
1	82.6	84.6	83.3	72.0	90.5
2	68.9	74.6	75.6	51.1	83.5
3	58.4	67.2	63.3	36.3	77.9
4	51.4	61.4	54.1	27.6	73.2
5	46.3	58.6	49.8	21.4	68.9
6	42.2	54.9	43.1	17.7	64.3
7	38.5	51.0	40.2	14.7	59.8
8	35.6	47.5	37.7	12.2	57.2
9	32.9	44.7		10.7	53.1
10	29.8	42.7		8.9	48.6

Table 5d. Observed post-progression survival of patients with prostate cancer for period 1998-2014 (N=6,507).

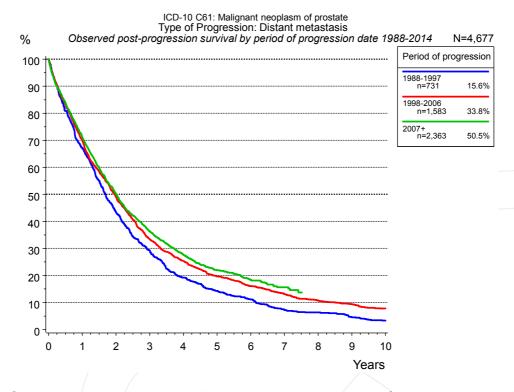


Figure 5e. Observed post-progression (distant metastasis) survival of 4,677 patients with prostate cancer diagnosed between 1988 and 2014 by period of progression.

Period of progression							
	1988-1997	1998-2006	2007+				
	n=731	n=1,583	n=2,363				
Years	%	%	%				
0	100.0	100.0	100.0				
1	67.2	69.9	71.1				
2	43.5	49.1	50.2				
3	29.3	33.4	36.3				
4	19.2	25.4	27.7				
5	14.3	19.6	22.0				
6	11.1	16.1	18.3				
7	7.2	13.2	15.7				
8	6.3	10.8					
9	4.5	9.4					
10	3.3	7.8					

Table 5f. Observed post-progression (distant metastasis) survival of patients with prostate cancer for period 1988-2014 by period of progression (N=4,677).

Shortcuts

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

Recommended Citation

Munich Cancer Registry. Survival ICD-10 C61: Prostate cancer [Internet]. 2016 [updated 2016 Mar 2; cited 2016 May 1]. Available from: http://www.tumorregister-muenchen.de/en/facts/surv/sC61__E-ICD-10-C61-Prostate-cancer-survival.pdf

Copyright

The content of the public web site provided by the Munich Cancer Registry is available worldwide and free of charge. All documents are free to download, utilize, copy, print-out and distribute, providing that the MCR is referenced.

Disclaimer

The Munich Cancer Registry reserves the right to not be responsible for the topicality, correctness, completeness or quality of the information provided. Liability claims regarding damage caused by the use of any information provided, including any kind of information which is incomplete or incorrect, will therefore be rejected.

Index of figures and tables

F	ig./Tbl	l.	Page
	1a	Relative survival by period of diagnosis (chart)	2
	1b	Survival by period of diagnosis (table)	2
	1c	Relative survival by year of diagnosis (chart)	3
	1d	Survival by year of diagnosis (table)	3
	2a	Survival of total cohort (chart)	5
	2b	Survival of total cohort (table)	5
	3a	Observed survival by age category (chart)	6
	3b	Relative survival by age category (chart)	6
	3c	Survival by age category (table)	7
	4a	Relative survival by TNM staging 1988+ (chart)	8
	4b	Survival by TNM staging 1988+ (table)	8
	4c	Relative survival by TNM staging 1998+ (chart)	10
	4d	Survival by TNM staging 1998+ (table)	10
	4e	Conditional survival by extent of disease (chart)	12
	4f	Conditional survival by extent of disease (table)	12
	5a	Time to first progression (chart)	13
	5b	Time to first progression (table)	13
	5c	Observed post-progression survival (chart)	15
	5d	Observed post-progression survival (table)	15
	5e	Observed post-progression survival by period of progression (chart)	16
	5f	Observed post-progression survival by period of progression (table)	16