Munich Cancer Registry



- ▶ Baseline statistics
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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

C67: Bladder cancer

Year of diagnosis	1988-2013
Patients	10,784
Diseases	10,789
Cases evaluated	5,372
Creation date	05/13/2015
Export date	12/30/2014
Population	4.64 m



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C67__E.pdf

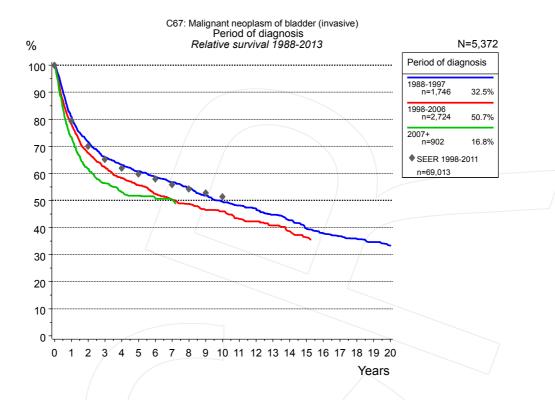


Figure 1a. Relative survival of patients with bladder cancer by period of diagnosis. Included in the evaluation are 5,372 cases diagnosed between 1988 and 2013.

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.

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-	2006	200	7+					
	n=1,	746	n=2,	724	n=902						
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %					
0	100.0	100.0	100.0	100.0	100.0	100.0					
1	77.0	81.0	74.5	78.1	70.3	73.4					
2	65.0	71.6	61.8	67.6	56.9	61.6					
3	57.3	65.9	54.7	62.2	50.4	56.4					
4	52.6	63.2	49.3	58.3	45.6	53.1					
5	48.7	60.9	45.3	55.6	43.5	51.7					
6	44.9	58.6	41.1	52.4	40.9	50.7					
7	41.8	56.8	37.9	50.2	39.5	50.3					
8	38.6	54.7	35.6	48.7							
9	35.1	51.8	32.6	46.5							
10	32.2	49.6	31.1	46.0							
11	30.1	48.2	28.0	43.1							
12	28.2	47.0	26.7	42.3							
13	25.8	44.7	24.5	40.7							
14	23.6	42.7	22.5	38.6							
15	21.0	39.6	20.3	36.4							
16	19.3	37.9									
17	18.0	36.8									
18	16.6	35.8									
19	15.6	34.7									
20	14.2	33.4									

Table 1b. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by period of diagnosis for period 1988-2013 (N=5,372).

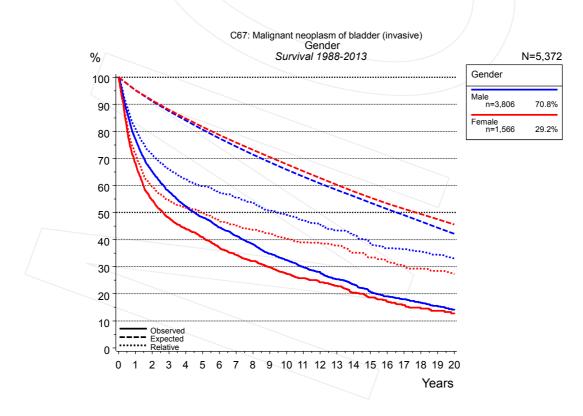


Figure 2a. Survival of patients with bladder cancer by gender. Included in the evaluation are 5,372 cases diagnosed between 1988 and 2013.

Munich Cancer Registry 05/13/2015 surv_C67__E.pdf

Gender										
	Ma		Fen							
	n=3,		n=1,	566						
Years	obs. %	rel. %	obs. %	rel. %						
0	100.0	100.0	100.0	100.0						
1	77.3	81.1	68.3	71.7						
2	65.2	71.5	54.5	59.6						
3	57.8	66.0	48.0	54.5						
4	52.3	62.3	44.0	51.9						
5	48.3	59.8	40.9	50.1						
6	44.5	57.4	37.1	47.1						
7	41.4	55.6	34.3	45.2						
8	38.3	53.6	32.1	43.7						
9	34.8	50.7	29.8	42.3						
10	32.5	49.2	27.4	40.3						
11	29.9	47.1	25.8	39.0						
12	28.1	46.0	24.3	38.6						
13	25.4	43.4	22.9	37.8						
14	23.5	41.8	20.5	35.2						
15	20.8	38.6	18.6	33.4						
16	19.1	36.8	17.2	31.9						
17	18.0	36.5	15.8	30.4						
18	16.7	35.6	14.6	29.3						
19	15.5	34.5	13.7	28.4						
20	14.1	33.0	12.7	27.2						

Table 2b. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by gender for period 1988-2013 (N=5,372).

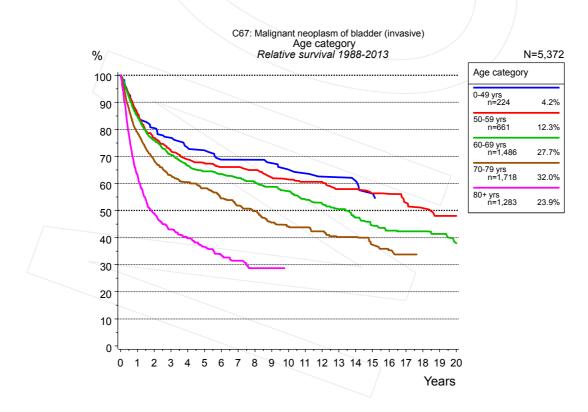


Figure 3a. Relative survival of patients with bladder cancer by age category. Included in the evaluation are 5,372 cases diagnosed between 1988 and 2013.

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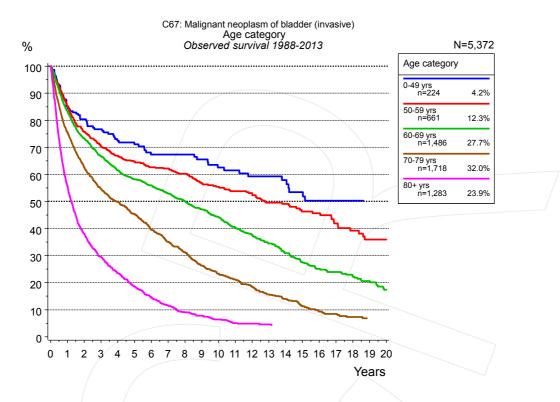


Figure 3b. Observed survival of patients with bladder cancer by age category. Included in the evaluation are 5,372 cases diagnosed between 1988 and 2013.

Age category										
	0-49		50-59	•	60-69	-		9 yrs	+08	•
	n=2		n=6			486		718	n=1,	283
Years	obs. %				obs. %				obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	85.3	85.1	85.3	85.9	83.4	84.8	75.5	78.8	55.9	63.3
2	80.4	80.5	75.7	76.9	73.3	76.0	62.5	68.4	38.0	48.9
3	76.7	76.9	70.3	72.0	66.6	70.6	54.7	62.9	29.6	43.1
4	72.4	73.2	66.9	68.9	61.5	66.6	49.9	60.5	23.4	39.8
5	71.1	72.3	64.8	67.6	58.2	64.5	45.4	58.2	18.6	36.6
6	67.4	68.8	62.7	66.1	56.0	63.6	39.5	54.5	14.7	33.7
7	67.4	68.8	62.2	66.1	53.0	62.1	35.1	51.9	11.5	31.4
8	67.4	68.8	60.3	65.0	50.1	60.6	31.2	49.8	9.0	28.7
9	65.5	67.5	56.9	62.3	47.0	58.8	26.3	45.6	7.8	28.7
10	62.5	65.1	55.4	61.5	44.1	57.1	23.3	44.1	6.4	28.7
11	61.5	63.7	53.8	60.6	40.3	54.2	21.1	43.8		
12	59.3	62.5	53.1	60.6	37.8	52.7	18.6	42.3		
13	59.3	62.3	49.6	58.0	34.5	50.5	15.7	40.2		
14	57.9	60.9	49.1	58.0	30.9	47.5	14.0	40.2		
15	53.4	56.3	46.3	56.4	27.7	44.5	11.2	37.3		
16			45.6	56.2	25.1	42.6	9.3	35.3		
17			41.8	52.9	24.0	42.3	8.5	33.8		
18			39.2	50.9	22.2	42.3				
19			36.0	48.0	20.6	41.4				
20			36.0	48.0	17.4	37.9				

Table 3c. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by age category for period 1988-2013 (N=5,372).

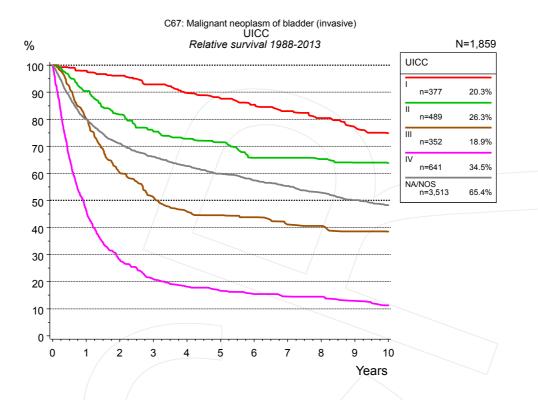


Figure 4a. Relative survival of patients with bladder cancer by UICC. For 4,944 of 5,372 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. For a total of 1,859 cases an evaluable classification was established. The grey line represents the subgroup of 3,513 patients with missing values regarding UICC (65.4% of 5,372 patients, the percent values of all other categories are related to n=1,859).

	I		- 1	I	ll ll	III		IV		NOS
	n=377		n=4	189	n=3	352	n=6	641	n=3,	,513
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	94.9	97.9	87.8	90.5	78.3	80.3	45.0	46.4	75.6	80.1
2	90.2	96.2	76.8	81.8	57.4	60.2	26.3	28.0	63.9	71.0
3	84.3	92.9	68.9	75.6	47.8	51.2	19.0	20.9	56.8	66.2
4	78.6	89.8	64.3	72.8	41.7	45.9	16.0	18.2	51.6	62.7
5	74.2	87.7	61.3	71.5	39.7	44.6	14.2	16.7	47.3	59.9
6	69.8	85.4	54.2	65.7	37.9	43.8	13.0	15.5	43.4	57.4
7	65.6	83.0	52.7	65.7	34.0	41.2	11.7	14.5	40.1	55.4
8	61.2	80.5	50.2	65.3	33.0	40.6	11.4	14.4	36.7	52.9
9	56.6	77.1	47.4	64.0	30.3	38.6	9.8	12.9	33.4	50.1
10	52.6	74.8	45.8	63.9	29.1	38.5	8.3	11.3	30.9	48.3

Table 4b. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by UICC for period 1988-2013 (N=1,859).

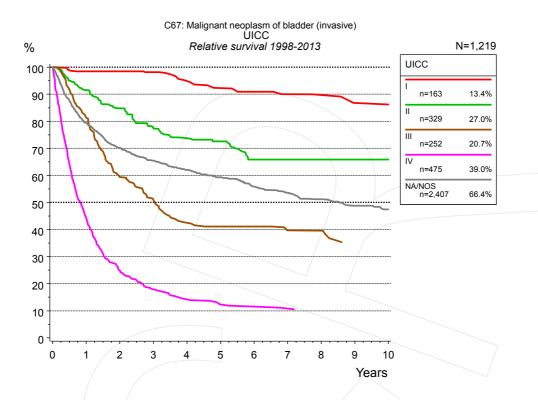


Figure 4c. Relative survival of patients with bladder cancer by UICC. For 3,390 of 3,626 cases diagnosed between 1998 and 2013 valid data could be obtained for this item. For a total of 1,219 cases an evaluable classification was established. The grey line represents the subgroup of 2,407 patients with missing values regarding UICC (66.4% of 3,626 patients, the percent values of all other categories are related to n=1,219).

UICC											
		ı		I.	l	ll ll	I	I۱	/	NA/NOS	
		n=1	163	n=3	329	n=2	252	n=4	75	n=2,	,407
	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	96.8	98.5	89.4	91.6	79.2	81.3	42.9	44.1	75.1	79.5
	2	94.8	98.5	80.3	84.8	56.6	59.4	23.4	24.8	63.2	70.2
	3	91.7	98.2	71.6	77.5	47.9	51.0	16.5	17.9	56.4	65.4
	4	86.2	94.9	66.1	73.8	38.7	42.5	12.7	14.2	51.3	62.0
	5	81.8	92.3	63.3	72.6	36.6	41.1	10.6	12.3	47.1	59.3
	6	79.0	90.9	55.5	65.9	36.6	41.1	10.1	11.5	42.6	55.8
	7	75.5	90.0	54.6	65.9	32.8	39.7	9.1	10.8	39.2	53.6
	8	73.5	89.7	52.4	65.9	32.8	39.6	8.5	10.5	36.2	51.2
	9	68.4	86.8	50.6	65.9	27.8	35.2	8.5	10.5	32.9	48.8
	10	68.4	86.2	50.6	65.9	27.8	34.7	8.5	10.5	30.8	47.4

Table 4d. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by UICC for period 1998-2013 (N=1,219).

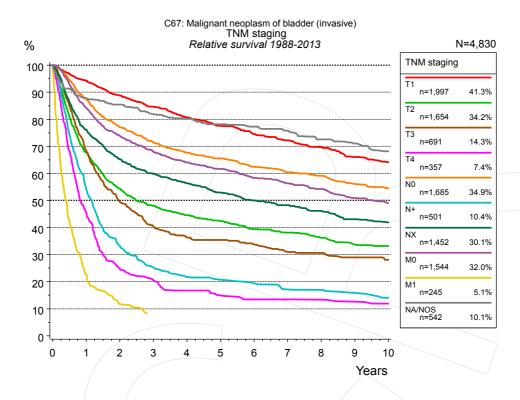


Figure 4e. Relative survival of patients with bladder cancer by TNM staging. For 4,944 of 5,372 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. For a total of 4,830 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 542 patients with missing values regarding TNM staging (10.1% of 5,372 patients, the percent values of all other categories are related to n=4,830).

1 90.0 94.3 64.1 67.9 66.1 68.5 43.7 45.5 84.5 87.5 52.7 54.3 71.6 76.2 2 81.1 88.8 48.8 54.3 46.5 49.5 22.9 24.7 72.1 77.1 31.3 33.3 58.0 65.2 3 74.1 84.6 41.3 48.0 36.8 40.4 18.3 20.4 64.6 71.4 23.2 25.3 50.6 59.8 4 67.9 80.7 36.8 44.6 32.2 36.4 14.6 16.7 59.2 67.7 19.3 21.7 45.4 56.3 5 62.7 77.6 33.5 42.4 30.7 35.4 12.6 14.9 55.4 65.5 17.7 20.7 40.7 52.9 6 57.8 74.6 29.8 39.4 28.1 33.7 11.0 13.4 50.9 62.4 16.4 19.4 36.7 50.0 7 53.9 72.3 27.6 38.1 24.8 31															
r=1,997 n=1,654 n=691 n=357 n=1,685 n=501 n=1,452 0 100.0 100							TNI	VI stagi	ing						
Years obs. % rel. % obs. % rel. % </th <th></th> <th>Т</th> <th>1</th> <th>Т</th> <th>2</th> <th colspan="2">T3</th> <th colspan="2">T3 T4</th> <th colspan="2">N0</th> <th colspan="2">N+</th> <th colspan="2">NX</th>		Т	1	Т	2	T3		T3 T4		N0		N+		NX	
0 100.0 100		n=1	,997	n=1,	,654	n=6	691	n=3	357	n=1	,685	n=5	501	n=1,	452
1 90.0 94.3 64.1 67.9 66.1 68.5 43.7 45.5 84.5 87.5 52.7 54.3 71.6 76.2 2 81.1 88.8 48.8 54.3 46.5 49.5 22.9 24.7 72.1 77.1 31.3 33.3 58.0 65.2 3 74.1 84.6 41.3 48.0 36.8 40.4 18.3 20.4 64.6 71.4 23.2 25.3 50.6 59.8 4 67.9 80.7 36.8 44.6 32.2 36.4 14.6 16.7 59.2 67.7 19.3 21.7 45.4 56.3 5 62.7 77.6 33.5 42.4 30.7 35.4 12.6 14.9 55.4 65.5 17.7 20.7 40.7 52.9 6 57.8 74.6 29.8 39.4 28.1 33.7 11.0 13.4 50.9 62.4 16.4 19.4 36.7 50.0 7 53.9 72.3 27.6 38.1 24.8 31	Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
2 81.1 88.8 48.8 54.3 46.5 49.5 22.9 24.7 72.1 77.1 31.3 33.3 58.0 65.2 3 74.1 84.6 41.3 48.0 36.8 40.4 18.3 20.4 64.6 71.4 23.2 25.3 50.6 59.8 4 67.9 80.7 36.8 44.6 32.2 36.4 14.6 16.7 59.2 67.7 19.3 21.7 45.4 56.3 5 62.7 77.6 33.5 42.4 30.7 35.4 12.6 14.9 55.4 65.5 17.7 20.7 40.7 52.9 6 57.8 74.6 29.8 39.4 28.1 33.7 11.0 13.4 50.9 62.4 16.4 19.4 36.7 50.0 7 53.9 72.3 27.6 38.1 24.8 31.0 11.0 13.4 47.5 60.4 14.0 17.2 33.9 48.3 8 49.8 69.7 25.2 36.2 24.2 30.6 10.5 13.3 44.8 59.1 13.6 17.0 31.0 46.2	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
3 74.1 84.6 41.3 48.0 36.8 40.4 18.3 20.4 64.6 71.4 23.2 25.3 50.6 59.8 4 67.9 80.7 36.8 44.6 32.2 36.4 14.6 16.7 59.2 67.7 19.3 21.7 45.4 56.3 5 62.7 77.6 33.5 42.4 30.7 35.4 12.6 14.9 55.4 65.5 17.7 20.7 40.7 52.9 6 57.8 74.6 29.8 39.4 28.1 33.7 11.0 13.4 50.9 62.4 16.4 19.4 36.7 50.0 7 53.9 72.3 27.6 38.1 24.8 31.0 11.0 13.4 47.5 60.4 14.0 17.2 33.9 48.3 8 49.8 69.7 25.2 36.2 24.2 30.6 10.5 13.3 44.8 59.1 13.6 17.0 31.0 46.2	1	90.0	94.3	64.1	67.9	66.1	68.5	43.7	45.5	84.5	87.5	52.7	54.3	71.6	76.2
4 67.9 80.7 36.8 44.6 32.2 36.4 14.6 16.7 59.2 67.7 19.3 21.7 45.4 56.3 5 62.7 77.6 33.5 42.4 30.7 35.4 12.6 14.9 55.4 65.5 17.7 20.7 40.7 52.9 6 57.8 74.6 29.8 39.4 28.1 33.7 11.0 13.4 50.9 62.4 16.4 19.4 36.7 50.0 7 53.9 72.3 27.6 38.1 24.8 31.0 11.0 13.4 47.5 60.4 14.0 17.2 33.9 48.3 8 49.8 69.7 25.2 36.2 24.2 30.6 10.5 13.3 44.8 59.1 13.6 17.0 31.0 46.2	2	81.1	88.8	48.8	54.3	46.5	49.5	22.9	24.7	72.1	77.1	31.3	33.3	58.0	65.2
5 62.7 77.6 33.5 42.4 30.7 35.4 12.6 14.9 55.4 65.5 17.7 20.7 40.7 52.9 6 57.8 74.6 29.8 39.4 28.1 33.7 11.0 13.4 50.9 62.4 16.4 19.4 36.7 50.0 7 53.9 72.3 27.6 38.1 24.8 31.0 11.0 13.4 47.5 60.4 14.0 17.2 33.9 48.3 8 49.8 69.7 25.2 36.2 24.2 30.6 10.5 13.3 44.8 59.1 13.6 17.0 31.0 46.2	3	74.1	84.6	41.3	48.0	36.8	40.4	18.3	20.4	64.6	71.4	23.2	25.3	50.6	59.8
6 57.8 74.6 29.8 39.4 28.1 33.7 11.0 13.4 50.9 62.4 16.4 19.4 36.7 50.0 7 53.9 72.3 27.6 38.1 24.8 31.0 11.0 13.4 47.5 60.4 14.0 17.2 33.9 48.3 8 49.8 69.7 25.2 36.2 24.2 30.6 10.5 13.3 44.8 59.1 13.6 17.0 31.0 46.2	4	67.9	80.7	36.8	44.6	32.2	36.4	14.6	16.7	59.2	67.7	19.3	21.7	45.4	56.3
7 53.9 72.3 27.6 38.1 24.8 31.0 11.0 13.4 47.5 60.4 14.0 17.2 33.9 48.3 8 49.8 69.7 25.2 36.2 24.2 30.6 10.5 13.3 44.8 59.1 13.6 17.0 31.0 46.2	5	62.7	77.6	33.5	42.4	30.7	35.4	12.6	14.9	55.4	65.5	17.7	20.7	40.7	52.9
8 49.8 69.7 25.2 36.2 24.2 30.6 10.5 13.3 44.8 59.1 13.6 17.0 31.0 46.2	6	57.8	74.6	29.8	39.4	28.1	33.7	11.0	13.4	50.9	62.4	16.4	19.4	36.7	50.0
	7	53.9	72.3	27.6	38.1	24.8	31.0	11.0	13.4	47.5	60.4	14.0	17.2	33.9	48.3
0 454 661 225 337 220 280 06 126 411 561 121 158 277 430	8	49.8	69.7	25.2	36.2	24.2	30.6	10.5	13.3	44.8	59.1	13.6	17.0	31.0	46.2
9 43.4 00.1 22.3 33.7 22.0 20.9 9.0 12.0 41.1 30.1 12.1 13.0 27.7 43.0	9	45.4	66.1	22.5	33.7	22.0	28.9	9.6	12.6	41.1	56.1	12.1	15.8	27.7	43.0
10 42.3 64.1 21.3 33.1 20.4 28.1 8.6 11.9 38.3 54.4 10.4 14.0 25.7 41.9	10	42.3	64.1	21.3	33.1	20.4	28.1	8.6	11.9	38.3	54.4	10.4	14.0	25.7	41.9

	TNM staging											
cont'd	M	0	M	1	NA/NOS							
	n=1,	544	n=2	245	n=542							
Years	obs. % rel. %		obs. %	rel. %	obs. %	rel. %						
0	100.0	100.0	100.0	100.0	100.0	100.0						
1	80.9	84.2	22.2	22.7	84.0	87.8						
2	68.2 73.9		10.7	11.7	79.0	85.4						
3	60.5 68.0		7.3	8.1	72.5	81.9						
4	54.9 64.0				68.4	80.2						
5	50.9	61.7			64.6	78.1						
6	46.5	58.4			61.3	77.3						
7	43.2	56.4			57.6	75.8						
8	40.1 54.2				53.3	72.6						
9	36.3 51.0				50.1	71.1						
10	33.5	49.0			46.3	68.2						

Table 4f. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by TNM staging for period 1988-2013 (N=10,126).

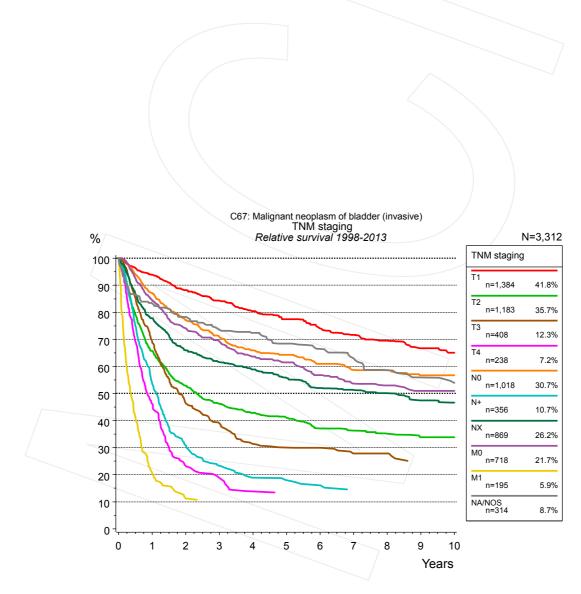


Figure 4g. Relative survival of patients with bladder cancer by TNM staging. For 3,390 of 3,626 cases diagnosed between 1998 and 2013 valid data could be obtained for this item. For a total of 3,312 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 314 patients with missing values regarding TNM staging (8.7% of 3,626 patients, the percent values of all other categories are related to n=3,312).

	TNM staging													
T1		1	T2		T3		T	4	N	0	N	+	N	X
	n=1,	384	n=1,	,183	n=4	108	n=2	238	n=1,	018	n=3	356	n=8	369
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	89.7	93.9	62.2	65.7	66.9	69.0	44.5	46.1	84.5	87.1	52.3	53.7	73.5	77.8
2	80.9	88.2	47.8	52.9	43.9	46.4	22.0	23.2	72.6	77.0	29.4	30.9	59.3	65.9
3	74.4	84.3	40.1	46.2	36.2	39.0	17.0	18.8	64.9	70.9	21.6	23.3	53.0	61.6
4	68.4	80.5	35.7	42.8	28.2	31.4	12.2	13.8	58.6	65.9	16.9	18.9	48.5	58.9
5	63.5	77.5	33.0	41.0	26.3	30.0			55.4	64.3	15.6	18.0	44.1	55.8
6	58.3	74.0	28.7	37.1	25.8	29.9			50.9	60.9	14.2	16.0	39.4	52.0
7	54.3	71.7	27.0	36.3	22.6	27.8			47.2	58.7	12.0	14.2	37.2	51.3
8	50.8	69.5	25.3	35.1	22.6	27.8			46.0	58.6			35.1	50.2
9	46.7	66.7	23.3	33.8	19.4	25.0			42.8	56.7			31.4	47.4
10	44.0	65.1	22.8	33.8	19.4	24.8			42.3	56.7			29.7	46.6

		TNI	VI stagi	ing			
cont'd	M	0	M	1	NA/NOS		
	n=7	7 18	n=1	195	n=314		
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	100.0	100.0	
1	81.5	84.4	20.6	20.6	79.3	83.3	
2	69.2	74.1	10.5	11.3	71.7	78.3	
3	62.6	69.2			64.6	73.6	
4	55.6	63.7			60.9	72.4	
5	51.9	61.5			55.9	68.4	
6	46.6	56.8			52.1	66.4	
7	42.5	53.7			47.3	62.9	
8	40.6	53.0			42.8	58.6	
9	38.0	51.0			39.4	55.9	
10	37.4	51.0			37.1	53.9	

Table 4h. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by TNM staging for period 1998-2013 (N=6,369).

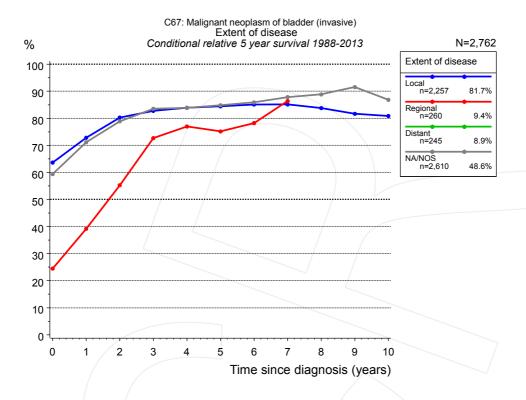


Figure 4i. Conditional relative 5-year survival of patients with bladder cancer by extent of disease. For 4,944 of 5,372 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. For a total of 2,762 cases an evaluable classification was established. The grey line represents the subgroup of 2,610 patients with missing values regarding extent of disease (48.6% of 5,372 patients, the percent values of all other categories are related to n=2,762).

			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	2,257	63.7	260	24.5	245		2,610	59.4
1	1,700	72.8	140	39.2			1,918	71.2
2	1,348	80.3	79	55.3			1,508	78.9
3	1,097	82.7	53	72.7			1,253	83.5
4	897	83.9	43	77.0			1,077	83.8
5	746	84.4	36	75.2			911	84.8
6	619	85.1	32	78.2			773	85.9
7	533	85.1	26	86.4			678	87.8
8	449	83.8					580	88.8
9	376	81.7					482	91.5
10	326	80.9					406	86.9

Table 4j. Conditional relative 5-year survival of patients with bladder cancer by extent of disease for period 1988-2013 (N=2,762).

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 4g). 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 82.7% (n=1,097).

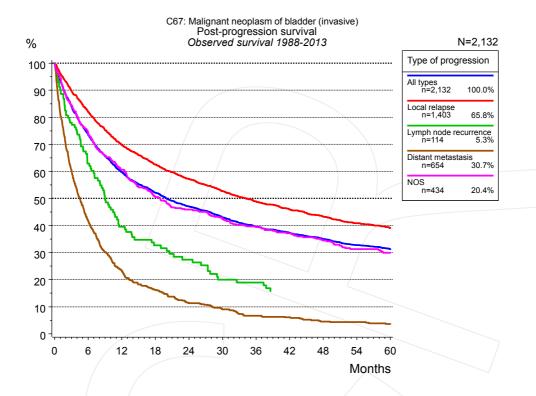


Figure 5a. Observed post-progression survival of 2,132 patients with bladder cancer diagnosed between 1988 and 2013 (incl. M1). These 2,132 patients with documented progression events during their course of disease represent 39.7% of the totally 5,372 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=555, 10.3%). 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 "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.

		Type of	f progression	1	
	All types	Local relapse	Lymph node recurrence	Distant metastasis	NOS
	n=2,132	n=1,403	n=114	n=654	n=434
Months	%	%	%	%	%
0	100.0	100.0	100.0	100.0	100.0
12	59.8	69.8	39.5	23.1	60.7
24	47.1	57.2	27.4	11.3	45.9
36	39.6	48.9	19.0	6.7	39.4
48	35.0	43.3		4.5	34.5
60	31.3	39.1		3.6	29.9

Table 5b. Observed post-progression survival of patients with bladder cancer for period 1988-2013 (N=2,132).

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Shortcuts

MCR Munich Cancer Registry, G	Germany (Tumorregister München)
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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
Assembled survival chart (observed, expected, relative)

PPS Post-progression survival, survival since first relapse (Kaplan-Meier estimate)

Date of entry: Date of first locoregional recurrence, distant metastasis, unspecified

progression

AS

Event: Death of all causes

CS Conditional survival, survival probability under the condition of surviving a given period of time

Recommended Citation

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