Munich Cancer Registry



- Baseline statistics
- Selection Matrix
- Homepage
- Deutsch

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

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

Cancer statistics: Survival

C67, D09.0, D41.4: Bladder cancer

Year of diagnosis	1988-2013
Patients	20,556
Diseases	20,830
Cases evaluated	10,780
Creation date	05/13/2015
Export date	12/30/2014
Population	4.64 m



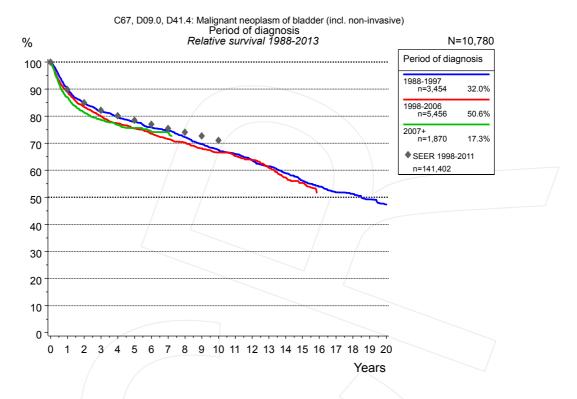


Figure 1a. Relative survival of patients with bladder cancer by period of diagnosis. Included in the evaluation are 10,780 cases diagnosed between 1988 and 2013.

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 populationbased 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.

			of diag				
	1988-	1997	1998-	2006	200	7+	
	n=3,	,454	n=5,	456	n=1,	870	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	100.0	100.0	
1	86.1	90.2	85.1	88.9	83.6	87.0	
2	77.4	84.8	76.8	83.4	75.4	81.3	
3	71.5	81.7	70.9	80.0	70.5	78.6	
4	66.7	79.5	66.0	77.3	66.5	76.7	
5	62.9	78.0	62.1	75.5	63.5	75.6	
6	58.7	75.8	58.2	73.5	60.1	74.2	
7	55.5	74.6	54.5	71.5	57.9	73.9	
8	51.6	72.2	51.6	70.2			
9	47.9	69.7	48.1	68.1			
10	44.6	67.5	45.5	66.6			
11	42.1	66.0	42.8	65.2			
12	39.2	63.9	40.3	63.8			
13	36.3	61.4		60.9			
14	33.4	58.9	33.6	57.3			
15	30.7	56.2	31.1	55.3			
16	28.4	54.0					
17	26.2	51.8					
18	24.8	51.3					
19	23.0	49.3					
20	21.1	47.3					

Table 1b. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by period of diagnosis for period 1988-2013 (N=10,780).

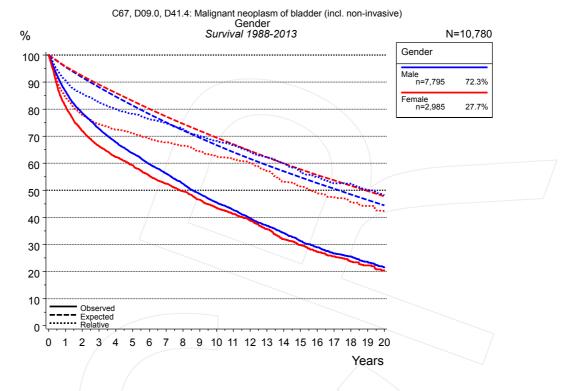


Figure 2a. Survival of patients with bladder cancer by gender. Included in the evaluation are 10,780 cases diagnosed between 1988 and 2013.

	C	Gende	r	
	Ma	ale	Fen	nale
	n=7,	795	n=2	,985
Years	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	86.7	90.7	81.2	84.8
2	78.6	85.7	72.0	77.9
3	72.8	82.6	66.3	74.4
4	67.7	80.0	62.4	72.4
5	63.7	78.3	59.3	71.3
6	59.6	76.3	55.5	69.2
7	56.2	74.8	52.4	67.7
8	52.4	72.6	49.6	66.5
9	48.7	70.1	46.4	64.4
10	45.5	68.2	43.6	62.6
11	42.8	66.6	41.3	61.5
12	39.8	64.5	38.9	60.0
13	36.9	62.1	35.7	57.2
14	34.2	60.0	32.0	53.2
15	31.3	56.9	29.9	51.4
16	28.9	54.8	27.3	48.9
17	26.7	52.6	25.6	47.4
18	25.5	52.5	23.6	45.6
19	23.6	50.4	22.2	44.2
20	21.6	48.3	20.5	42.4

Table 2b. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by gender for period 1988-2013 (N=10,780).

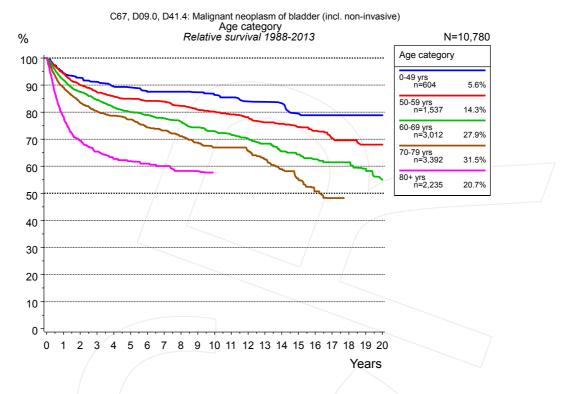


Figure 3a. Relative survival of patients with bladder cancer by age category. Included in the evaluation are 10,780 cases diagnosed between 1988 and 2013.

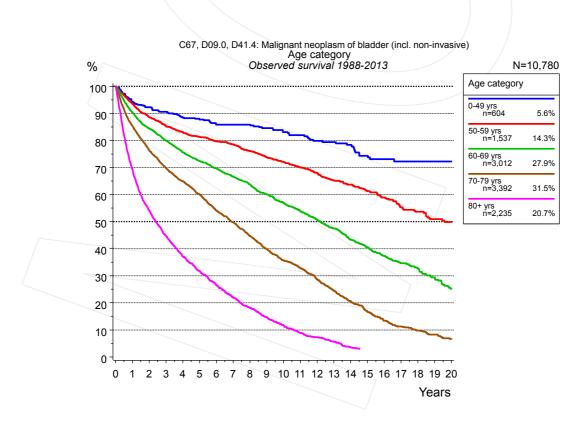


Figure 3b. Observed survival of patients with bladder cancer by age category. Included in the evaluation are 10,780 cases diagnosed between 1988 and 2013.

				Age	categ	•				
	0-49) yrs	50-5	9 yrs	60-6	9 yrs	70-7	9 yrs	80+	yrs
	n=6	604	n=1,	537	n=3,	,012	n=3	,392	n=2	,235
/ears	obs. %	rel. %								
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1	94.4	94.5	93.6	94.2	90.4	92.0	85.4	89.1	69.4	78.4
2	92.3	92.7	88.6	90.0	84.5	87.5	76.4	83.5	54.1	69.4
3	90.6	91.2	85.3	87.4	79.9	84.5	69.9	80.3	44.7	65.4
4	88.5	89.5	83.1	85.8	75.6	81.7	64.9	78.7	37.1	62.7
5	87.7	89.1	81.4	85.0	72.4	80.0	60.1	77.3	31.7	61.8
6	85.9	87.6	79.6	84.1	69.6	79.0	54.1	74.3	26.7	61.0
7	85.9	87.6	78.5	83.9	66.7	77.7	49.7	73.2	22.0	60.1
8	85.9	87.6	76.2	82.3	63.8	76.5	44.7	71.1	18.1	58.2
9	84.6	87.3	73.8	80.9	60.1	74.4	39.8	68.7	14.8	58.2
10	83.1	86.4	72.0	80.2	56.9	72.9	35.8	66.9		
11	82.0	85.5	70.1	79.1	53.9	71.6	32.8	66.9		
12	79.9	84.0	68.1	78.1	50.8	70.2	28.8	65.8		
13	79.4	83.8	65.3	76.2	47.5	68.4	24.5	62.6		
14	78.4	83.3	63.7	75.7	43.4	65.5	20.6	59.0		
15	74.4	79.5	61.3	74.5	40.6	64.4	16.7	55.1		
16	73.1	78.9	59.0	73.1	37.3	62.6	13.4	50.7		
17	72.3	78.9	55.4	70.4	34.7	61.5	11.3	48.3		
18	72.3	78.9	53.6	69.6	32.6	61.5				
19	72.3	78.9	51.0	68.0	29.4	59.1				
20	72.3	78.9	49.8	68.0	25.2	55.0				

Table 3c. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by age category for period 1988-2013 (N=10,780).

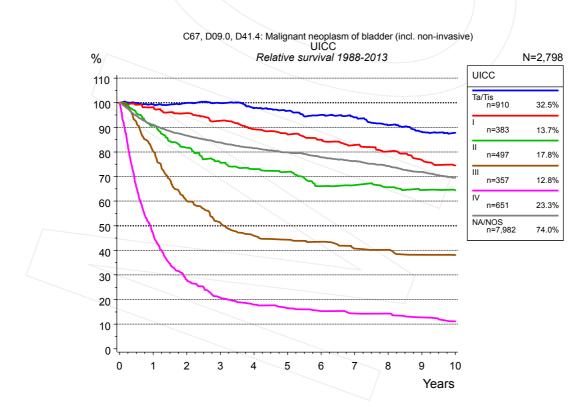


Figure 4a. Relative survival of patients with bladder cancer by UICC. For 10,296 of 10,780 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. For a total of 2,798 cases an evaluable classification was established. The grey line represents the subgroup of 7,982 patients with missing values regarding UICC (74.0% of 10,780 patients, the percent values of all other categories are related to n=2,798).

						UICC						
	Ta/	Tis	I		I	I	11	I.	IV	/	NA/I	NOS
	n=9	910	n=3	383	n=4	197	n=3	357	n=6	651	n=7	,982
Years	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
1	95.5	99.4	95.0	98.2	88.0	90.7	78.3	80.3	45.2	46.7	86.9	91.1
2	92.3	100.0	89.5	95.7	76.8	81.7	57.3	60.1	26.2	28.0	79.2	86.6
3	88.6	99.9	83.7	92.7	69.0	75.7	47.8	51.2	18.8	20.7	73.5	83.8
4	83.4	97.8	78.1	89.2	64.5	73.0	41.8	46.0	15.9	18.0	68.8	81.5
5	79.4	96.7	73.8	87.2	61.5	71.9	39.3	44.4	14.1	16.5	64.8	79.9
6	74.9	95.1	69.4	84.9	54.5	66.1	37.5	43.5	12.9	15.3	60.7	77.8
7	71.3	94.0	65.3	82.8	53.0	66.5	33.7	40.7	11.6	14.4	57.2	76.3
8	66.2	90.9	60.9	80.2	50.5	65.7	32.7	40.2	11.3	14.3	53.5	74.3
9	62.0	88.2	56.4	76.7	47.8	64.5	30.0	38.2	9.7	12.8	49.8	71.9
10	59.4	87.8	52.4	74.5	46.2	64.4	28.8	38.1	8.2	11.2	46.3	69.5

Table 4b. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by UICC for period 1988-2013 (N=2,798).

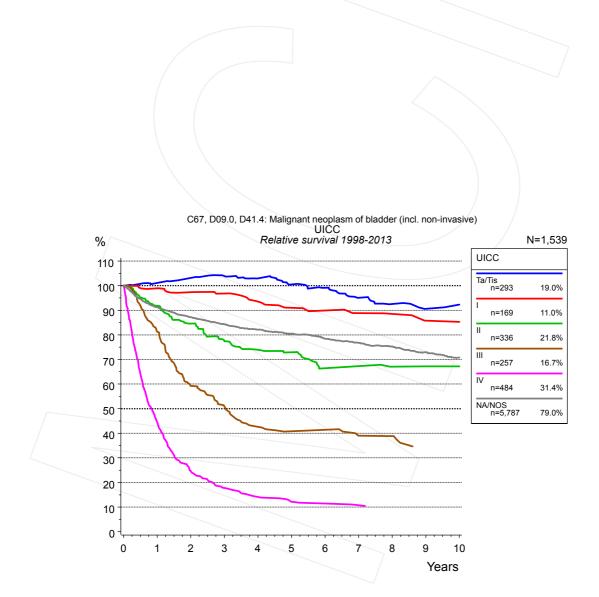


Figure 4c. Relative survival of patients with bladder cancer by UICC. For 7,038 of 7,326 cases diagnosed between 1998 and 2013 valid data could be obtained for this item. For a total of 1,539 cases an evaluable classification was established. The grey line represents the subgroup of 5,787 patients with missing values regarding UICC (79.0% of 7,326 patients, the percent values of all other categories are related to n=1,539).

Page 7 of 14	ge 7 of 14	
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						UICC						
	Ta/	Tis	I		I	I	II	1	IV	/	NA/	NOS
	n=2	293	n=1	169	n=3	336	n=2	257	n=4	84	n=5,	787
Years	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
1	97.9	101.1	97.0	98.9	89.6	91.8	79.2	81.3	43.1	44.4	87.1	91.2
2	96.8	103.1	93.1	97.3	80.1	84.6	56.5	59.3	23.2	24.6	79.9	87.1
3	94.0	103.9	90.1	96.8	71.6	77.5	47.9	51.0	16.4	17.7	74.3	84.3
4	89.8	103.0	84.8	93.5	66.2	73.9	38.8	42.6	12.6	14.1	69.7	82.1
5	84.5	100.5	80.5	91.0	63.5	72.9	36.0	40.8	10.5	12.2	65.8	80.5
6	80.3	99.1	77.8	89.9	55.8	66.4	36.0	41.4	10.0	11.4	61.7	78.4
7	73.9	95.0	74.5	88.8	55.0	67.3	32.3	39.0	9.0	10.7	58.1	76.7
8	69.3	92.5	72.5	88.5	52.8	67.1	32.3	38.8	8.5	10.5	54.8	75.3
9	65.1	90.6	67.7	85.8	51.1	67.2	27.4	34.5	8.5	10.5	51.1	72.9
10	64.1	92.3	67.7	85.3	51.1	67.2	27.4	34.1	8.5	10.5	47.8	70.8

Table 4d. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by UICC for period 1998-2013 (N=1,539).

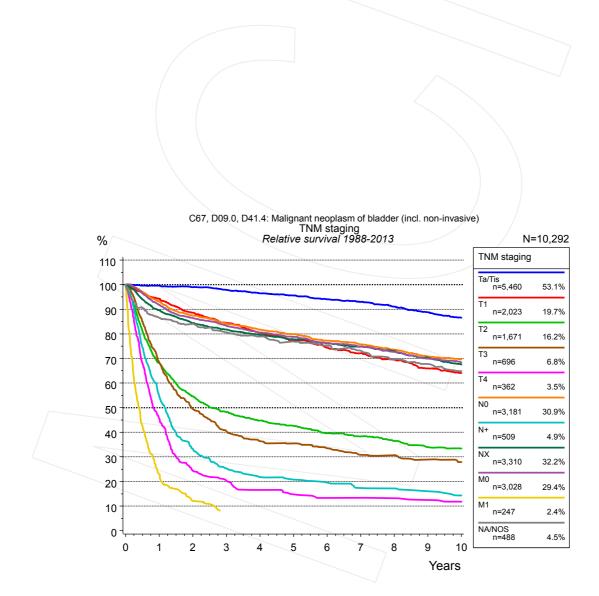


Figure 4e. Relative survival of patients with bladder cancer by TNM staging. For 10,296 of 10,780 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. For a total of 10,292 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 488 patients with missing values regarding TNM staging (4.5% of 10,780 patients, the percent values of all other categories are related to n=10,292).

						TN	V stagi	ing						
	Ta/	Tis	Т	1	Т	2	T	3	T	4	N	0	N	+
	n=5,	460	n=2	,023	n=1,	671	n=6	696	n=3	362	n=3,	181	n=5	509
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	99.5	89.9	94.3	64.4	68.2	66.1	68.4	43.8	45.6	89.8	93.2	53.1	54.7
2	91.5	99.0	80.8	88.5	49.1	54.6	46.4	49.4	22.7	24.5	81.2	87.4	31.3	33.3
3	87.0	97.8	73.9	84.4	41.5	48.2	36.8	40.3	18.1	20.2	75.4	84.1	23.2	25.3
4	82.6	96.4	67.6	80.5	36.9	44.8	32.2	36.4	14.4	16.5	70.6	81.7	19.4	21.8
5	78.9	95.6	62.4	77.4	33.6	42.6	30.5	35.4	12.4	14.7	66.5	79.9	17.8	20.8
6	74.7	94.0	57.6	74.4	30.0	39.6	28.0	33.5	10.8	13.3	61.9	77.2	16.5	19.5
7	71.1	93.0	53.6	72.1	27.8	38.3	24.7	30.8	10.8	13.3	58.4	75.7	14.1	17.3
8	66.9	91.0	49.7	69.5	25.4	36.4	24.0	30.7	10.4	13.2	54.7	73.6	13.8	17.2
9	62.9	88.8	45.3	66.0	22.7	33.9	21.9	28.9	9.5	12.5	50.8	70.9	12.3	16.1
10	59.0	86.5	42.2	64.0	21.5	33.4	20.3	27.9	8.5	11.8	48.0	69.7	10.6	14.3

			TN	VI stag	ing			
cont'd	N	Х	Μ	10	Μ	1	NA/N	VOS
	n=3,	310	n=3,	,028	n=2	247	n=4	88
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	85.2	89.6	88.2	91.8	22.4	23.0	82.7	86.5
2	76.8	84.3	79.8	86.4	11.1	12.0	77.4	84.0
3	71.3	81.7	74.0	83.2	7.2	8.0	71.5	80.6
4	66.6	79.5	69.0	80.5			67.3	78.9
5	62.5	77.7	64.9	78.7			63.5	76.9
6	58.8	76.1	60.5	76.2			59.9	75.2
7	55.4	74.8	57.0	74.7			55.9	73.1
8	51.9	73.0	53.4	72.7			51.4	69.7
9	48.1	70.3	49.6	70.0			48.0	67.7
10	44.4	67.5	46.6	68.5			44.4	64.8

Table 4f. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by TNM staging for period 1988-2013 (N=20,487).

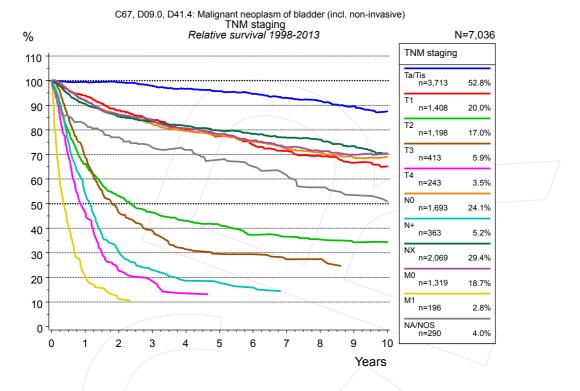


Figure 4g. Relative survival of patients with bladder cancer by TNM staging. For 7,038 of 7,326 cases diagnosed between 1998 and 2013 valid data could be obtained for this item. For a total of 7,036 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 290 patients with missing values regarding TNM staging (4.0% of 7,326 patients, the percent values of all other categories are related to n=7,036).

						TN	VI stagi	ing						
	Ta/	Tis	Т	1	Т	2	T	3	Т	4	N	0	N	+
	n=3,	713	n=1,	,408	n=1,	198	n=4	13	n=2	243	n=1,	,693	n=3	363
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	95.8	99.5	89.7	93.9	62.6	66.2	66.8	68.9	44.7	46.4	89.3	92.2	52.7	54.0
2	92.1	99.3	80.6	87.9	48.1	53.2	43.9	46.3	21.6	22.8	80.8	86.1	29.1	30.6
3	87.5	97.8	74.2	84.1	40.3	46.4	36.2	39.0	16.7	18.4	74.9	82.3	21.4	23.1
4	83.4	96.6	68.0	80.1	35.9	43.0	28.3	31.5	12.0	13.5	70.0	79.5	16.7	18.7
5	79.6	95.7	63.2	77.4	33.2	41.3	26.0	29.6			66.0	77.7	15.5	17.8
6	75.8	94.5	58.1	73.8	28.9	37.3	25.4	29.5			61.6	75.1	14.1	15.9
7	71.7	92.9	54.0	71.4	27.3	36.6	22.3	27.4			57.1	72.2	11.9	14.0
8	68.2	91.8	50.5	69.4	25.5	35.4	22.3	27.4			54.1	70.8		
9	64.1	89.6	46.5	66.6	23.6	34.2	19.1	24.6			50.6	68.7		
10	60.3	87.5	43.8	65.1	23.1	34.3	19.1	24.4			49.0	69.0		

Munich Cancer Registry

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			TNM staging								
Yearsobs. %rel. %obs. %rel. %obs. %rel. %0100.0100.0100.0100.0100.0100.0100.0100.0186.590.688.791.820.520.578.482.2278.285.480.686.310.411.270.677.0373.483.375.883.864.472.9469.181.570.480.664.555.867.8661.578.461.675.651.965.1757.976.857.372.864.551.6951.273.451.369.954.238.353.4	cont'd	N	Х	Μ	0	N	11	NA/N	NOS		
0 100.0 100		n=2,	069	n=1,	319	n=′	196	n=2	290		
1 86.5 90.6 88.7 91.8 20.5 20.5 78.4 82.2 2 78.2 85.4 80.6 86.3 10.4 11.2 70.6 77.0 3 73.4 83.3 75.8 83.8 64.4 72.9 4 69.1 81.5 70.4 80.6 61.0 71.9 5 65.0 79.7 66.0 78.2 55.8 67.8 6 61.5 78.4 61.6 75.6 51.9 65.1 7 57.9 76.8 57.3 72.8 46.9 61.6 8 55.1 76.0 54.2 71.3 42.1 56.6 9 51.2 73.4 51.3 69.9 38.3 53.4	Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %		
2 78.2 85.4 80.6 86.3 10.4 11.2 70.6 77.0 3 73.4 83.3 75.8 83.8 64.4 72.9 4 69.1 81.5 70.4 80.6 61.0 71.9 5 65.0 79.7 66.0 78.2 55.8 67.8 6 61.5 78.4 61.6 75.6 51.9 65.1 7 57.9 76.8 57.3 72.8 46.9 61.6 8 55.1 76.0 54.2 71.3 42.1 56.6 9 51.2 73.4 51.3 69.9 38.3 53.4	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
3 73.4 83.3 75.8 83.8 64.4 72.9 4 69.1 81.5 70.4 80.6 61.0 71.9 5 65.0 79.7 66.0 78.2 55.8 67.8 6 61.5 78.4 61.6 75.6 51.9 65.1 7 57.9 76.8 57.3 72.8 46.9 61.6 8 55.1 76.0 54.2 71.3 42.1 56.6 9 51.2 73.4 51.3 69.9 38.3 53.4	1	86.5	90.6	88.7	91.8	20.5	20.5	78.4	82.2		
469.181.570.480.661.071.9565.079.766.078.255.867.8661.578.461.675.651.965.1757.976.857.372.846.961.6855.176.054.271.342.156.6951.273.451.369.938.353.4	2	78.2	85.4	80.6	86.3	10.4	11.2	70.6	77.0		
5 65.0 79.7 66.0 78.2 55.8 67.8 6 61.5 78.4 61.6 75.6 51.9 65.1 7 57.9 76.8 57.3 72.8 46.9 61.6 8 55.1 76.0 54.2 71.3 42.1 56.6 9 51.2 73.4 51.3 69.9 38.3 53.4	3	73.4	83.3	75.8	83.8			64.4	72.9		
6 61.5 78.4 61.6 75.6 51.9 65.1 7 57.9 76.8 57.3 72.8 46.9 61.6 8 55.1 76.0 54.2 71.3 42.1 56.6 9 51.2 73.4 51.3 69.9 38.3 53.4	4	69.1	81.5	70.4	80.6			61.0	71.9		
7 57.9 76.8 57.3 72.8 46.9 61.6 8 55.1 76.0 54.2 71.3 42.1 56.6 9 51.2 73.4 51.3 69.9 38.3 53.4	5	65.0	79.7	66.0	78.2			55.8	67.8		
8 55.1 76.0 54.2 71.3 42.1 56.6 9 51.2 73.4 51.3 69.9 38.3 53.4	6	61.5	78.4	61.6	75.6			51.9	65.1		
9 51.2 73.4 51.3 69.9 38.3 53.4	7	57.9	76.8	57.3	72.8			46.9	61.6		
	8	55.1	76.0	54.2	71.3			42.1	56.6		
10 47.3 70.5 49.8 70.4 35.8 50.9	9	51.2	73.4	51.3	69.9			38.3	53.4		
	10	47.3	70.5	49.8	70.4			35.8	50.9		

Table 4h. Observed (obs.) and relative (rel.) survival of patients with bladder cancer by TNM staging for period 1998-2013 (N=12,615).

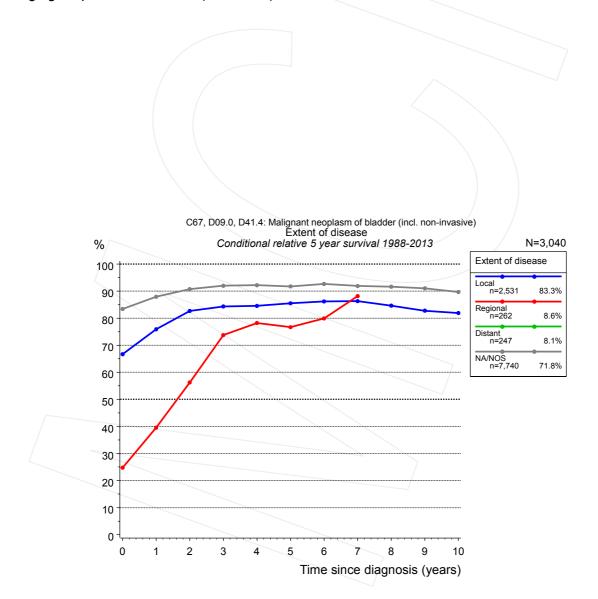


Figure 4i. Conditional relative 5-year survival of patients with bladder cancer by extent of disease. For 10,296 of 10,780 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. For a total of 3,040 cases an evaluable classification was established. The grey line represents the subgroup of 7,740 patients with missing values regarding extent of disease (71.8% of 10,780 patients, the percent values of all other categories are related to n=3,040).

			Exten	t of dis	sease			
	Loc	al Cond. surv. %	Regio	onal Cond. surv. %	Dist	ant Cond. surv. %	NA/N	IOS Cond. surv. %
Years	n	5 yrs	n	5 yrs	n	5 yrs	n	5 yrs
0	2,531	66.7	262	24.8	247		7,740	83.4
1	1,946	75.9	142	39.6			6,615	87.9
2	1,558	82.7	80	56.3			5,732	90.8
3	1,285	84.3	54	73.8			4,932	92.0
4	1,060	84.5	44	78.2			4,244	92.2
5	888	85.5	37	76.7			3,681	91.8
6	745	86.2	33	79.9			3,159	92.7
7	645	86.3	27	88.2			2,797	91.9
8	547	84.6					2,412	91.6
9	459	82.8					2,049	91.0
10	403	81.9					1,739	89.7

Table 4j. Conditional relative 5-year survival of patients with bladder cancer by extent of disease for period 1988-2013 (N=3,040).

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 84.3% (n=1,285).

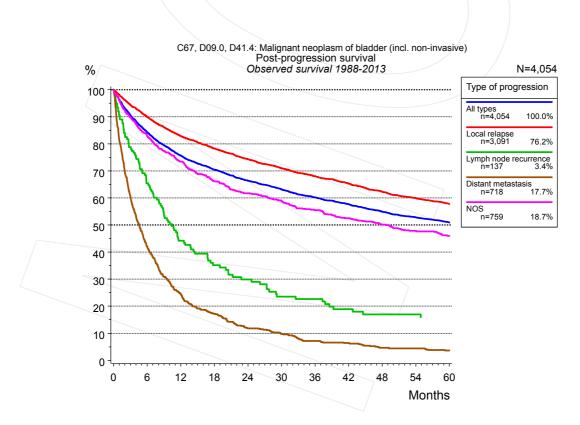


Figure 5a. Observed post-progression survival of 4,054 patients with bladder cancer diagnosed between 1988 and 2013 (incl. M1). These 4,054 patients with documented progression events during their course of disease represent 37.6% of the totally 10,780 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=625, 5.8%). 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 progression							
	All types	Local relapse	Lymph node recurrence	Distant metastasis	NOS		
	n=4,054	n=3,091	n=137	n=718	n=759		
Months	%	%	%	%	%		
0	100.0	100.0	100.0	100.0	100.0		
12	75.6	82.9	44.2	24.3	73.4		
24	66.4	74.3	29.9	11.8	61.7		
36	60.2	68.0	22.7	7.1	55.5		
48	54.9	62.3	16.9	4.6	50.2		
60	50.9	57.8	15.9	3.6	46.0		

Table 5b. Observed post-progression survival of patients with bladder cancer for period 1988-2013 (N=4,054).

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

progression

- Death of all causes
- CS Conditional survival, survival probability under the condition of surviving a given period of time

Recommended Citation

Event:

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Index of figures and tables

Fig./Tb	l.	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	Observed survival by age category (chart)	4
3c	Survival by age category (table)	5
4a	Relative survival by UICC 1988+ (chart)	5
4b	Survival by UICC 1988+ (table)	6
4c	Relative survival by UICC 1998+ (chart)	6
4d	Survival by UICC 1998+ (table)	7
4e	Relative survival by TNM staging 1988+ (chart)	7
4f	Survival by TNM staging 1988+ (table)	8
4g	Relative survival by TNM staging 1998+ (chart)	9
4h	Survival by TNM staging 1998+ (table)	9
4i	Conditional survival by extent of disease (chart)	10
4j	Conditional survival by extent of disease (table)	11
5a	Observed post-progression survival (chart)	11
5b	Observed post-progression survival (table)	12

