Munich Cancer Registry



- Incidence and Mortality
- Selection Matrix
- Homepage
- Deutsch

ICD-10 C38, C47-C49: Sarcoma

Year of diagnosis	1988-1997	1998-2014
Patients	611	3,283
Diseases	611	3,296
Cases evaluated	555	2,484
Creation date	04/11/2016	
Export date	12/23/2015	
Population	4.64 m	

Survival



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/sC3849E-ICD-10-C38-C47-C49-Sarcoma-survival.pdf

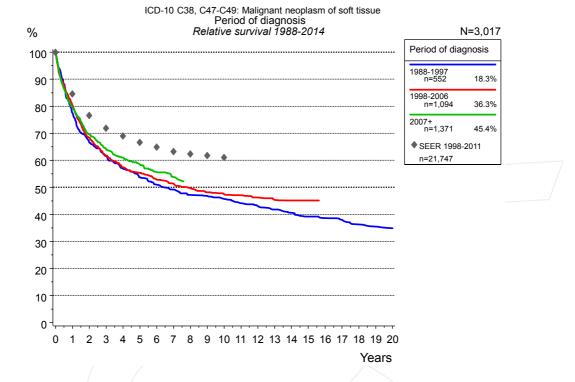


Figure 1a. Relative survival of patients with sarcoma by period of diagnosis. Included in the evaluation are 3,017 cases diagnosed between 1988 and 2014.

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.

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.

	Period of diagnosis									
	1988-	-1997	1998-	2006	200)7+				
	n=5	552	n=1,	,094	n=1	,371				
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %				
0	100.0	100.0	100.0	100.0	100.0	100.0				
1	75.8	77.5	78.4	80.2		79.6				
2	64.0	66.5	65.7	68.4	66.8	69.7				
3	58.2	61.6			60.5	64.2				
4	52.7	56.9	53.2	57.4	56.7	61.1				
5	49.0	53.7	50.4	55.4	53.4	58.5				
6	45.7	51.0	47.4	52.9	49.9	55.6				
7	43.4	49.2	45.2	51.3	47.6	53.9				
8	40.9	47.2	42.9	49.6						
9	39.9	46.8	40.9	48.1						
10	38.2	45.7	39.6	47.4						
11	36.2	44.1	38.7	47.1						
12	34.8	43.1	37.3	46.3						
13	33.2	41.8	35.9	45.4						
14	31.7	40.6	35.2	45.2						
15	30.1	39.2	35.2	45.2						
16	29.0	38.6								
17	28.2	38.0								
18	26.4	36.3								
19	25.5	35.5								
20	24.4	34.9								

Table 1b. Observed (obs.) and relative (rel.) survival of patients with sarcoma by period of diagnosis for period 1988-2014 (N=3,017).

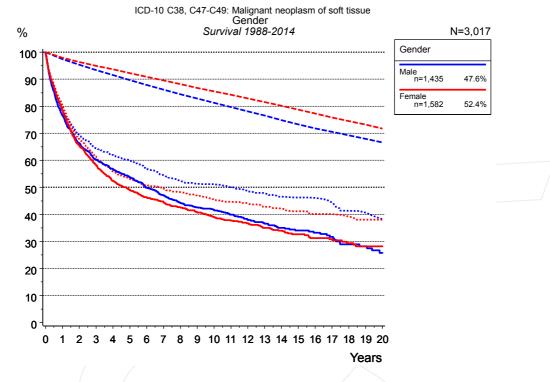


Figure 2a. Survival of patients with sarcoma by gender. Included in the evaluation are 3,017 cases diagnosed between 1988 and 2014.

	C	Sende	r	
	Ma	ale	Fen	
	n=1,	435	n=1,	582
Years	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	76.7	78.6	78.5	80.1
2	66.3	69.5	65.4	67.8
3	60.2	64.5	58.3	61.4
4	56.7	62.0	52.4	55.9
5	53.7	59.8	49.0	53.1
6	49.9	56.7	46.4	50.9
7	47.1	54.6	44.7	49.6
8	44.2	52.4	42.6	48.2
9	42.6	51.4	40.8	46.9
10	41.6	51.1	38.9	45.4
11	40.0	50.1	37.7	44.7
12	37.9	48.5	36.7	44.1
13	36.6	47.7	35.0	42.8
14	35.1	46.6	34.0	42.1
15	34.1	46.3	32.6	41.2
16	33.2	46.1	31.2	40.2
17	31.7	44.4	30.8	40.1
18	28.9	41.4	29.4	39.2
19	28.3	40.6	28.2	38.1
20	25.8	38.3	28.2	38.1

Table 2b. Observed (obs.) and relative (rel.) survival of patients with sarcoma by gender for period 1988-2014 (N=3,017).

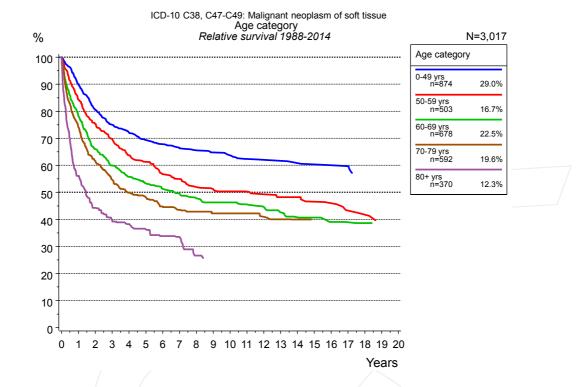


Figure 3a. Relative survival of patients with sarcoma by age category. Included in the evaluation are 3,017 cases diagnosed between 1988 and 2014.

	Age category										
	0-49	yrs	50-59	9 yrs	60-6	9 yrs	70-79	9 yrs	80+ yrs		
	n=8	374	n=5	503	n=6	678	n=592		n=370		
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	89.7	89.8	83.9	84.3	77.2	78.2	71.9	74.1	50.8	56.1	
2	80.3	80.5	74.6	75.4	64.4	66.0	57.8	61.6	35.9	44.3	
3	74.9	75.0	68.6	69.7	57.5	60.0	49.4	54.7	28.7	39.7	
4	71.9	72.1	62.3	63.7	52.6	55.7	43.3	49.9	24.5	38.3	
5	69.0	69.4	59.4	61.3	49.7	53.3	39.7	48.2	20.2	36.3	
6	67.4	67.8	54.5	56.7	46.9	51.3	35.3	44.8	16.6	33.9	
7	65.8	66.3	52.5	55.0	44.3	49.5	32.3	43.6	14.2	33.5	
8	65.0	65.5	49.0	52.0	41.7	47.8	30.3	42.8	9.4	26.6	
9	64.0	64.8	48.1	51.2	39.9	46.3	27.3	42.2			
10	62.8	63.7	46.9	50.4	38.6	46.3	25.6	42.2			
11	61.3	62.4	46.3	50.3	36.7	45.6	23.7	42.2			
12	60.9	62.0	44.5	49.3	34.9	44.6	20.5	41.0			
13	60.5	61.7	43.0	48.2	32.0	42.6	18.7	40.0			
14	59.4	60.8	43.0	48.2	29.8	40.7	16.8	40.0			
15	58.9	60.4	40.6	46.6	28.6	40.7	15.2	40.0			
16	58.2	60.1	39.7	46.0	25.8	39.0					
17	58.2	59.7	36.3	43.3	24.5	38.9					
18			35.0	41.8	23.2	38.7					
19			32.0	39.4	21.8	38.0					
20			32.0	38.7							

Table 3b. Observed (obs.) and relative (rel.) survival of patients with sarcoma by age category for period 1988-2014 (N=3,017).

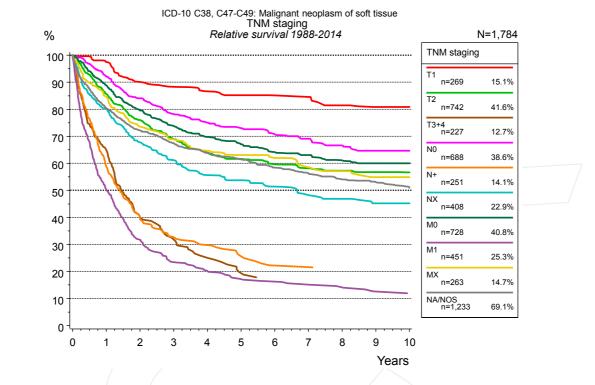


Figure 4a. Relative survival of patients with sarcoma by TNM staging. For 1,784 of 3,017 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 1,233 patients with missing values regarding TNM staging (40.9% of 3,017 patients, the percent values of all other categories are related to n=1,784).

	TNM staging													
	Т	1	Т	2	Т3		-	N0 N+			N	Х	Μ	0
	n=2	269	n=7	742	n=2	227	n=6	888	n=2	251	n=4	408	n=7	728
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	97.5	84.0	85.7	63.4	64.8	90.7	92.2	58.3	58.8	78.1	80.2	87.4	88.8
2	87.3	90.1	73.2	76.0	38.8	40.1	81.6	84.1	39.1	39.7	64.8	67.8	77.1	79.6
3	84.2	88.3	65.2	68.9	30.0	31.8	74.7	78.2	32.0	32.7	57.2	61.2	70.6	73.8
4	81.3	86.6	59.6	63.9	23.1	25.1	70.8	75.1	28.8	29.8	51.2	55.7	65.7	69.8
5	79.2	85.2	56.6	61.6	17.8	19.4	67.7	73.0	24.4	25.6	48.7	53.8	62.1	67.0
6	77.5	85.1	53.8	59.7			64.8	70.8	21.0	22.2	45.4	51.4	58.7	64.1
7	76.3	84.5	51.6	58.2			62.4	69.1	21.0	21.6	41.6	48.2	56.9	63.1
8	72.4	81.4	50.2	57.3			59.2	66.6	20.1	21.2	40.1	46.9	54.1	61.1
9	70.3	80.9	48.7	56.8			56.9	64.6	20.1	20.7	37.7	45.2	52.8	60.0
10	70.3	80.9	47.7	56.7			55.9	64.6	20.1	20.3	37.7	45.2	51.8	60.0

		TN	<mark>V stag</mark> i	ing			
cont'd	Μ	1	M	X	NA/NOS		
	n=4	151	n=2	263	n=1,	233	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	100.0	100.0	
1	49.3	50.2	82.8	84.7	78.2	80.4	
2	31.0	31.8	70.5	73.6	68.7	72.2	
3	22.7	23.5	64.7	68.9	63.0	67.5	
4	19.6	20.3	60.1	64.6	58.5	63.9	
5	16.4	17.2	57.4	63.1	55.3	61.5	
6	15.6	16.3	55.3	62.0	51.5	58.4	
7	14.1	15.2	51.7	58.5	48.8	56.3	
8	13.5	14.1	49.8	57.1	45.7	54.1	
9	11.7	12.6	46.7	54.9	44.1	53.1	
10	10.9	11.7	46.7	54.9	41.4	50.9	

Table 4b. Observed (obs.) and relative (rel.) survival of patients with sarcoma by TNM staging for period 1988-2014 (N=1,784).



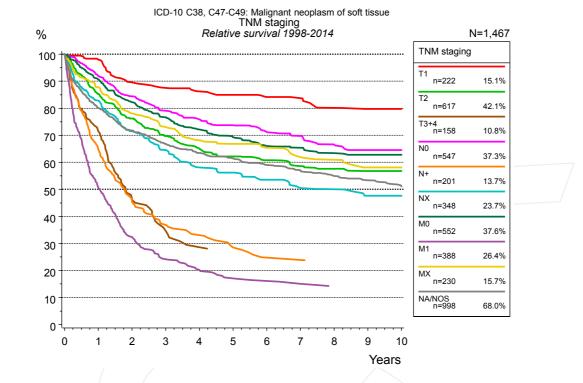


Figure 4c. Relative survival of patients with sarcoma by TNM staging. For 1,467 of 2,465 cases diagnosed between 1998 and 2014 valid data could be obtained for this item. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 998 patients with missing values regarding TNM staging (40.5% of 2,465 patients, the percent values of all other categories are related to n=1,467).

								-						
						TN	M stag	ing						
	Т	1	T2 T3+4				N	N0 N+			N	Х	M	0
	n=2	222	n=6	617	n=1	58	n=5	547	n=2	201	n=3	348	n=5	552
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	96.2	98.0	83.5	85.3	70.1	71.5	90.6	92.0	64.3	64.8	80.8	82.8	89.2	90.6
2	86.9	89.6	73.4	76.2	45.4	46.5	82.0	84.4	45.2	45.7	68.4	71.5	79.8	82.2
3	83.6	87.5	65.9	69.7	33.0	34.7	75.8	79.1	36.2	36.9	60.5	64.5	73.5	76.6
4	81.2	86.3	60.5	65.0	27.7	28.6	71.8	75.9	32.1	33.1	53.6	58.1	68.2	72.1
5	79.2	85.0	57.1	62.2			68.8	73.7	27.1	28.5	51.0	56.2	64.5	69.2
6	76.9	84.2	54.5	60.8			65.6	71.2	23.5	24.7	47.4	53.6	60.9	66.0
7	76.1	83.7	51.8	58.6			63.5	69.8	23.5	23.9	43.7	50.5	59.5	65.4
8	71.7	80.1	50.3	57.6			59.5	66.6	22.3	23.0	43.0	50.0	56.6	63.4
9	69.7	79.7	48.4	56.8			57.2	64.5	22.3	22.2	39.8	47.6	55.7	62.8
10	69.7	79.7	48.4	56.8			57.2	64.5	22.3	21.3	39.8	47.6	55.7	62.8

		TN	<mark>VI stag</mark> i	ing		
cont'd	Μ	1	M	x	NA/	NOS
	n=3	888	n=2	230	n=9	998
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	49.8	50.7	86.0	87.8	77.9	80.1
2	31.6	32.4	75.1	78.1	68.3	71.8
3	23.4	24.2	68.9	73.1	62.3	66.8
4	19.6	20.2	63.5	68.2	58.0	63.5
5	16.5	17.1	61.0	66.8	55.1	61.5
6	15.5	16.1	58.6	65.4	51.9	59.0
7	14.1	15.1	55.0	61.9	49.2	57.0
8	13.3	13.5	53.4	61.0	46.3	55.0
9			49.6	58.2	44.0	53.4
10			49.6	58.1	41.3	51.1

Table 4d. Observed (obs.) and relative (rel.) survival of patients with sarcoma by TNM staging for period 1998-2014 (N=1,467).



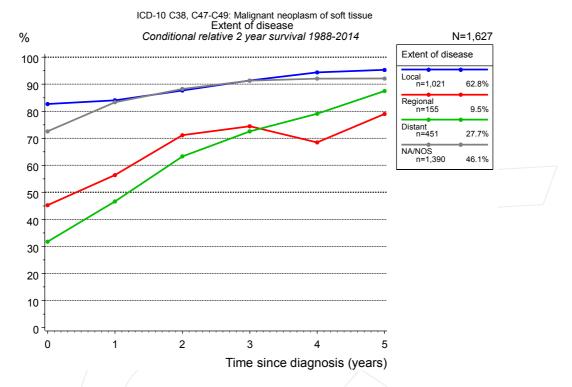


Figure 4e. Conditional relative 2-year survival of patients with sarcoma by extent of disease. For 1,784 of 3,017 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. For a total of 1,627 cases an evaluable classification was established. The grey line represents the subgroup of 1,390 patients with missing values regarding extent of disease (46.1% of 3,017 patients, the percent values of all other categories are related to n=1,627).

Extent of disease											
	Loc	al	Regio	onal	Dist	ant	NA/NOS				
	Cond.			Cond.		Cond.	Cond.				
		surv. %		surv. %		surv. %	surv. %				
Years	n	2 yrs	n	2 yrs	n	2 yrs	n	2 yrs			
0	1,021	82.7	155	45.3	451	31.8	1,390	72.6			
1	882	84.1	94	56.4	207	46.7	1,067	83.4			
2	722	87.7	63	71.2	120	63.3	885	88.3			
3	603	91.4	45	74.5	79	72.6	755	91.3			
4	501	94.4	36	68.5	59	79.1	655	92.1			
5	433	95.3	28	79.0	43	87.5	575	92.1			

Table 4f. Conditional relative 2-year survival of patients with sarcoma by extent of disease for period 1988-2014 (N=1,627).

Conditional relative survival rates refer to the relative survival probability, in this case for 2 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 2-year survival rate is 91.4% (n=603).

ICD-10 C38, C47-C49: Malignant neoplasm of soft tissue

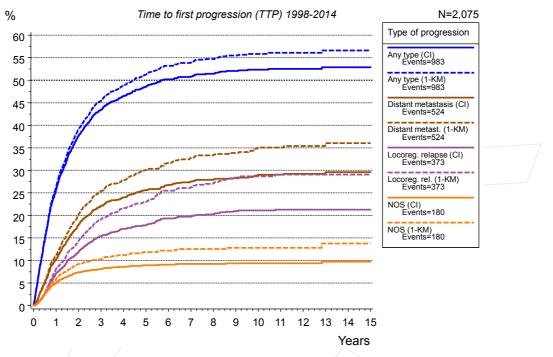


Figure 5a. Time to first progression of 2,075 patients with sarcoma diagnosed between 1998 and 2014 (M0 only in solid cancers) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

			Type of Distant	f progressio Distant	n		
	Any type (CI)	Any type (1-KM)	metastasis (CI)	metast. (1- KM)	Locoreg. relapse (CI)	Locoreg. rel. (1-KM)	NOS (CI)
	n=2,075	n=2,075	n=2,075	n=2,075	n=2,075	n=2,075	n=2,075
Years	%	%	%	%	%	%	%
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	25.9	26.6	10.3	11.2	7.3	8.3	5.1
2	37.7	39.2	18.0	20.2	11.9	14.3	7.4
3	43.5	45.5	22.2	25.5	15.4	19.1	8.1
4	46.5	48.9	24.0	27.9	17.0	21.7	8.6
5	48.6	51.3	25.6	30.0	17.9	23.0	8.9
6	50.2	53.2	26.7	31.6	19.4	25.5	9.1
7	50.8	54.0	27.5	32.7	19.8	26.3	9.3
8	51.5	54.7	28.0	33.5	20.3	27.2	9.3
9	52.1	55.5	28.3	33.9	21.0	28.4	9.4
10	52.4	55.9	29.0	35.1	21.1	28.7	9.4
11	52.5	56.1	29.0	35.1	21.3	29.1	9.4
12	52.5	56.1	29.2	35.4	21.3	29.1	9.4
13	52.9	56.6	29.6	36.0	21.3	29.1	9.8
14	52.9	56.6	29.6	36.0	21.3	29.1	9.8
15	52.9	56.6	29.6	36.0	21.3	29.1	9.8

٦	ype of
	gression
	NOS (1-KM)
	n=2,075
Years	%
0	0.0
1	6.0
2	9.3
3	10.3
4	11.2
5	11.9
6	12.2
7	12.5
8	12.5
9	12.8
10	12.8
11	12.8
12	12.8
13	13.8
14	13.8
15	13.8

 Table 5b. Time to first progression of patients with sarcoma for period 1998-2014 (N=2,075).



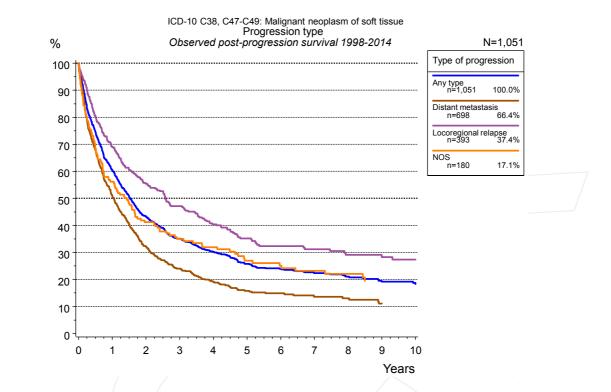


Figure 5c. Observed post-progression survival of 1,051 patients with sarcoma diagnosed between 1998 and 2014. These 1,051 patients with documented progression events during their course of disease represent 42.9 % of the totally 2,451 evaluated cases (incl. M1, n=376, 15.3 %). Patients with cancer relapse documented via death certificates only were excluded (n=308, 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 n=1,051 Distant metastasis Locoregional relapse n=698 NOS n=393 Years % % 0 100.0 100.0 100.0 1 60.5 51.0 69.1 56.2 2 43.3 32.2 55.4 41.2 3 35.1 24.0 47.1 35.0 4 30.3 19.3 40.4 32.0 5 25.7 15.8 35.1 26.9 6 23.9 14.9 32.3 25.1 7 22.4 13.6 31.2 23.2 8 21.1 13.0 29.1 22.1 9 19.2 11.1 28.3 19.5 10 18.3 27.3 27.3 27.3							
Years%%0100.0100.0100.0160.551.069.1243.332.255.4335.124.047.1335.124.047.1430.319.340.4525.715.835.1623.914.932.3722.413.631.2821.113.029.1919.211.128.3			Any type	Distant metastasis	Locoregional relapse		
1 60.5 51.0 69.1 56.2 2 43.3 32.2 55.4 41.2 3 35.1 24.0 47.1 35.0 4 30.3 19.3 40.4 32.0 5 25.7 15.8 35.1 26.9 6 23.9 14.9 32.3 25.1 7 22.4 13.6 31.2 23.2 8 21.1 13.0 29.1 22.1 9 19.2 11.1 28.3 19.5		Years	,				
2 43.3 32.2 55.4 41.2 3 35.1 24.0 47.1 35.0 4 30.3 19.3 40.4 32.0 5 25.7 15.8 35.1 26.9 6 23.9 14.9 32.3 25.1 7 22.4 13.6 31.2 23.2 8 21.1 13.0 29.1 22.1 9 19.2 11.1 28.3 19.5		0	100.0	100.0	100.0	100.0	
3 35.1 24.0 47.1 35.0 4 30.3 19.3 40.4 32.0 5 25.7 15.8 35.1 26.9 6 23.9 14.9 32.3 25.1 7 22.4 13.6 31.2 23.2 8 21.1 13.0 29.1 22.1 9 19.2 11.1 28.3 19.5		1	60.5	51.0	69.1	56.2	
430.319.340.432.0525.715.835.126.9623.914.932.325.1722.413.631.223.2821.113.029.122.1919.211.128.319.5		2	43.3	32.2	55.4	41.2	
5 25.7 15.8 35.1 26.9 6 23.9 14.9 32.3 25.1 7 22.4 13.6 31.2 23.2 8 21.1 13.0 29.1 22.1 9 19.2 11.1 28.3 19.5		3	35.1	24.0	47.1	35.0	
623.914.932.325.1722.413.631.223.2821.113.029.122.1919.211.128.319.5		4	30.3	19.3	40.4	32.0	
722.413.631.223.2821.113.029.122.1919.211.128.319.5		5	25.7	15.8	35.1	26.9	
8 21.1 13.0 29.1 22.1 9 19.2 11.1 28.3 19.5		6	23.9	14.9	32.3	25.1	
9 19.2 11.1 28.3 19.5		7	22.4	13.6	31.2	23.2	
		8	21.1	13.0	29.1	22.1	
10 18.3 27.3		9	19.2	11.1	28.3	19.5	
		10	18.3		27.3		

Table 5d. Observed post-progression survival of patients with sarcoma for period 1998-2014 (N=1,051).

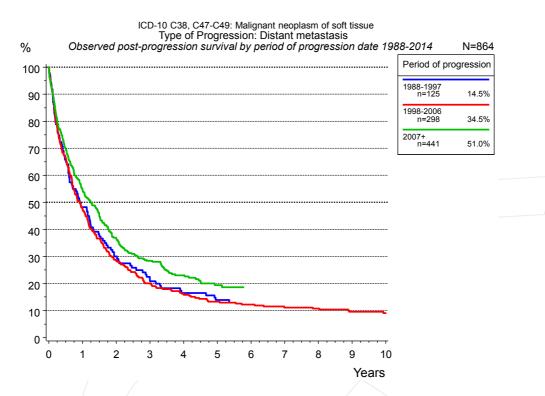


Figure 5e. Observed post-progression (distant metastasis) survival of 864 patients with sarcoma diagnosed between 1988 and 2014 by period of progression.

Period of progression				
	1988-1997	1998-2006	2007+	
	n=125	n=298	n=441	
Years	%	%	%	
0	100.0	100.0	100.0	
1	48.3	47.6	54.8	
2	30.0	28.4	36.7	
3	21.6	20.1	28.3	
4	16.5	16.1	23.0	
5	13.9	13.3	19.4	
6		12.2	18.6	
7		11.1	18.6	
8		10.8		
9		9.6		
10		9.1		

Table 5f. Observed post-progression (distant metastasis) survival of patients with sarcoma for period 1988-2014 by period of progression (N=864).



Shortcuts

MCR	Munich Cancer Registry, Germany					
NCI	National Cancer Institute, USA					
SEER	Surveillance, Epidemiology, and End Results, USA					
UICC	Union for International Can	ion for International Cancer 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-КМ	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				

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