

Munich Cancer Registry



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Sarcoma (morphological classification)

Survival

Year of diagnosis	1988-1997	1998-2016
Patients	690	3,536
Diseases	690	3,556
Cases evaluated	634	2,746
Creation date	08/22/2018	
Export date	08/09/2018	
Population	4.81 m	



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

https://www.tumorregister-muenchen.de/en/facts/surv/shST__E-Sarcoma-morphological-classification-survival.pdf

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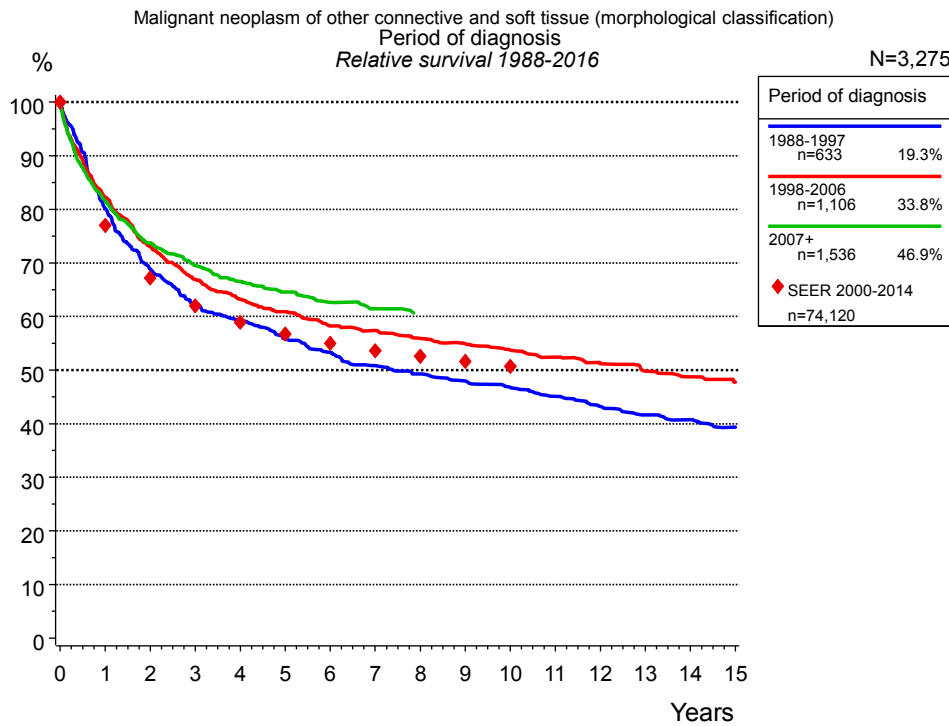


Figure 1a. Relative survival of patients with sarcoma (morphological classification) by period of diagnosis. Included in the evaluation are 3,275 cases diagnosed between 1988 and 2016.

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 2000 to 2014, and are represented by colored 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 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					
	1988-1997 n=633		1998-2006 n=1,106		2007+ n=1,536	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	78.6	80.1	80.7	82.2	80.0	81.6
2	66.5	68.9	70.5	73.1	71.0	73.8
3	59.1	62.3	63.5	66.9	65.8	69.5
4	55.3	59.2	59.1	63.2	62.0	66.6
5	51.2	55.8	56.0	60.9	59.2	64.6
6	48.2	53.3	52.8	58.3	56.4	62.7
7	45.3	50.8	51.3	57.4	54.4	61.4
8	43.2	49.3	49.2	55.9		
9	41.5	48.0	47.6	54.9		
10	39.7	46.8	45.7	53.7		
11	37.7	45.1	44.0	52.4		
12	35.6	43.2	42.3	51.2		
13	33.7	41.7	40.4	49.8		
14	32.6	40.8	39.0	48.7		
15	31.0	39.4	37.4	47.7		

Table 1b. Observed (obs.) and relative (rel.) survival of patients with sarcoma (morphological classification) by period of diagnosis for period 1988-2016 (N=3,275).

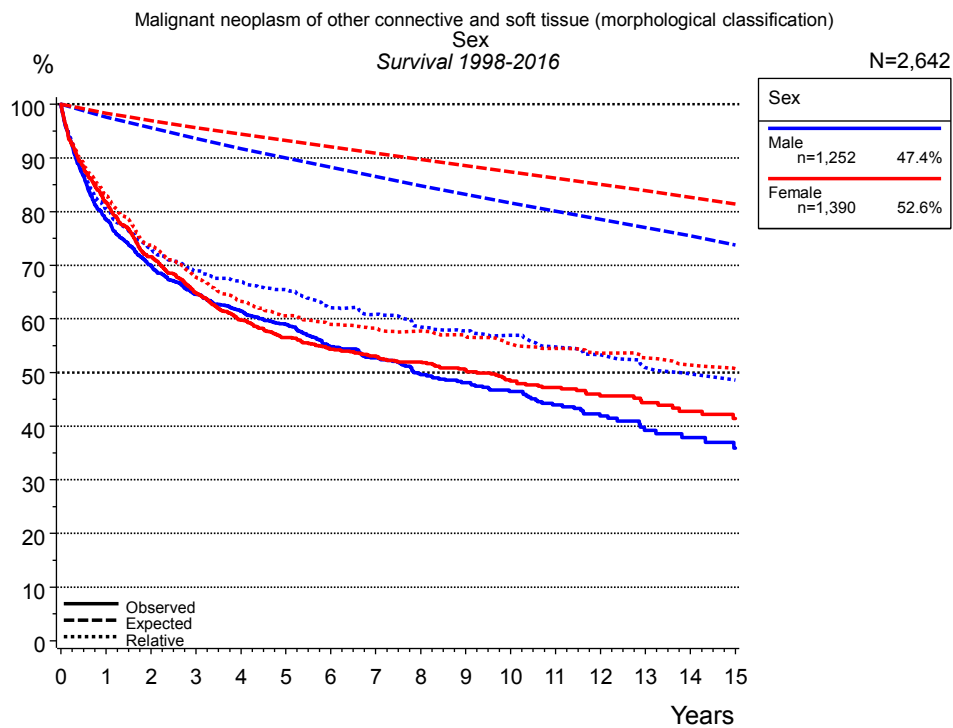


Figure 2a. Survival of patients with sarcoma (morphological classification) by sex. Included in the evaluation are 2,642 cases diagnosed between 1998 and 2016.

Years	Sex			
	Male n=1,252		Female n=1,390	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	78.6	80.5	81.7	83.1
2	69.9	73.1	71.6	73.8
3	64.6	68.9	64.9	67.8
4	61.5	67.0	59.8	63.3
5	58.9	65.5	56.5	60.5
6	54.8	62.1	54.4	59.0
7	52.7	60.8	53.1	58.3
8	49.6	58.4	52.0	57.8
9	48.1	57.8	50.5	56.9
10	46.5	56.9	48.4	55.4
11	43.9	54.8	47.2	54.5
12	41.9	53.3	45.6	53.6
13	39.2	50.9	44.3	52.7
14	37.8	49.7	42.8	51.4
15	35.9	48.6	41.4	50.7

Table 2b. Observed (obs.) and relative (rel.) survival of patients with sarcoma (morphological classification) by sex for period 1998-2016 (N=2,642).

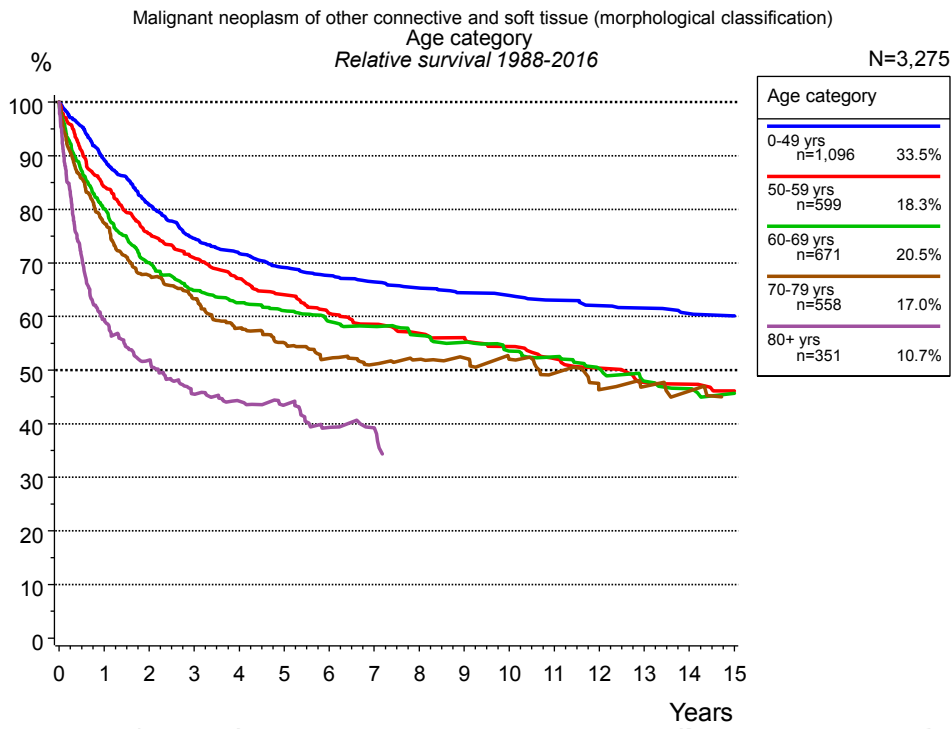


Figure 3a. Relative survival of patients with sarcoma (morphological classification) by age category. Included in the evaluation are 3,275 cases diagnosed between 1988 and 2016.

Years	Age category									
	0-49 yrs n=1,096		50-59 yrs n=599		60-69 yrs n=671		70-79 yrs n=558		80+ yrs n=351	
	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	89.1	89.2	83.9	84.2	79.2	80.1	75.1	77.5	53.7	59.5
2	80.6	80.8	74.7	75.5	68.4	70.1	63.4	67.7	41.9	51.9
3	74.4	74.6	69.8	70.9	62.2	64.9	57.0	63.3	32.7	45.5
4	71.5	71.7	65.6	67.1	59.1	62.6	49.9	57.8	27.9	44.2
5	68.8	69.2	62.1	64.1	56.8	61.1	45.3	55.1	23.7	43.5
6	67.1	67.6	58.4	60.6	53.9	59.1	40.9	52.2	18.8	39.3
7	66.0	66.5	56.0	58.6	52.1	58.2	37.7	51.1	16.2	39.2
8	64.7	65.3	53.7	56.9	49.4	56.5	36.1	52.0		
9	63.6	64.4	52.8	56.1	47.3	55.2	33.9	52.3		
10	63.1	64.0	50.7	54.4	44.6	53.6	30.9	52.0		
11	62.0	63.1	47.8	52.1	42.7	52.5	27.0	49.4		
12	60.9	62.1	45.6	50.4	39.7	50.2	22.9	46.3		
13	60.3	61.6	42.8	47.7	36.4	48.0	21.0	47.0		
14	59.2	60.5	42.2	47.4	34.6	46.5	18.8	46.1		
15	58.3	60.1	40.3	46.1	32.5	45.6	16.4	45.9		

Table 3b. Observed (obs.) and relative (rel.) survival of patients with sarcoma (morphological classification) by age category for period 1988-2016 (N=3,275).

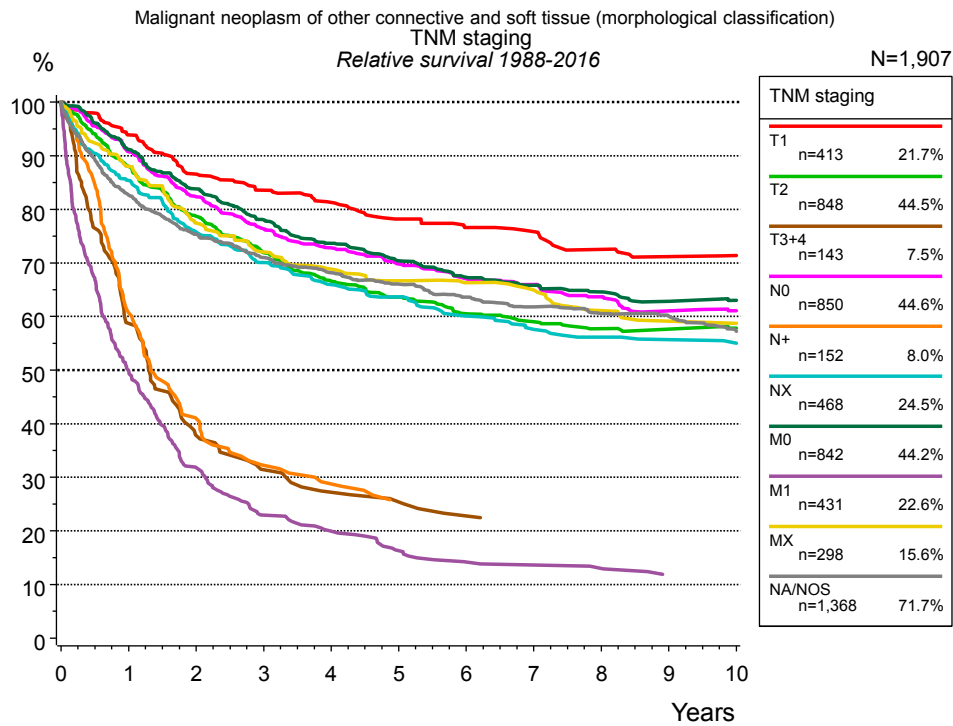


Figure 4a. Relative survival of patients with sarcoma (morphological classification) by TNM staging. For 1,909 of 3,275 cases diagnosed between 1988 and 2016 valid data could be obtained for this item. For a total of 1,907 cases an evaluable classification was established. The accumulated percentage exceeds the 100 % value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 1,368 patients with missing values regarding TNM staging (41.8 % of 3,275 patients, the percent values of all other categories are related to n=1,907).

Years	TNM staging													
	T1 n=413		T2 n=848		T3+4 n=143		N0 n=850		N+ n=152		NX n=468		M0 n=842	
	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	92.4	93.9	86.5	88.0	57.7	58.7	89.4	90.8	59.9	60.6	83.5	85.4	89.8	91.2
2	84.2	86.6	76.2	78.7	36.5	37.8	79.9	82.4	40.2	41.0	73.0	75.8	81.5	83.8
3	80.2	83.6	68.6	71.9	29.8	31.4	73.1	76.4	31.3	32.3	66.2	70.1	74.8	78.0
4	76.9	81.3	62.7	66.6	25.4	27.2	68.8	72.8	28.0	28.8	61.3	65.9	69.7	73.7
5	72.9	78.2	59.0	63.7	23.6	25.4	65.0	69.8	24.4	25.8	58.3	63.7	65.6	70.4
6	70.5	76.6	55.3	60.5	20.8	22.8	61.6	67.1	24.4	25.8	54.0	60.1	62.0	67.3
7	69.1	75.9	53.3	59.0	19.8	22.3	59.9	66.0	24.4	25.8	51.2	57.6	59.8	65.8
8	65.2	72.5	51.2	57.7			57.0	63.7	24.4	25.8	49.0	56.2	57.9	64.6
9	63.1	71.2	50.5	57.6			53.8	61.1	24.4	25.7	48.1	55.7	55.6	62.8
10	61.9	71.4	49.9	57.8			53.0	61.1			47.0	55.0	54.8	63.0

<i>cont'd</i>	TNM staging					
	M1 n=431		MX n=298		NA/NOS n=1,368	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
Years						
0	100.0	100.0	100.0	100.0	100.0	100.0
1	48.9	49.8	86.1	88.0	80.8	82.7
2	30.9	31.8	74.4	77.4	72.3	75.3
3	22.1	22.9	68.0	72.0	66.8	71.0
4	19.3	19.9	64.1	68.8	63.0	68.2
5	15.5	16.3	61.0	66.7	59.9	66.0
6	13.4	14.2	59.4	66.3	56.8	63.7
7	12.9	13.6	57.7	65.0	54.2	61.8
8	12.4	13.0	53.2	61.1	52.1	60.6
9	10.9	11.9	50.9	59.1	50.9	60.1
10	10.9	11.4	49.6	58.7	47.5	57.2

Table 4b. Observed (obs.) and relative (rel.) survival of patients with sarcoma (morphological classification) by TNM staging for period 1988-2016 (N=1,907).

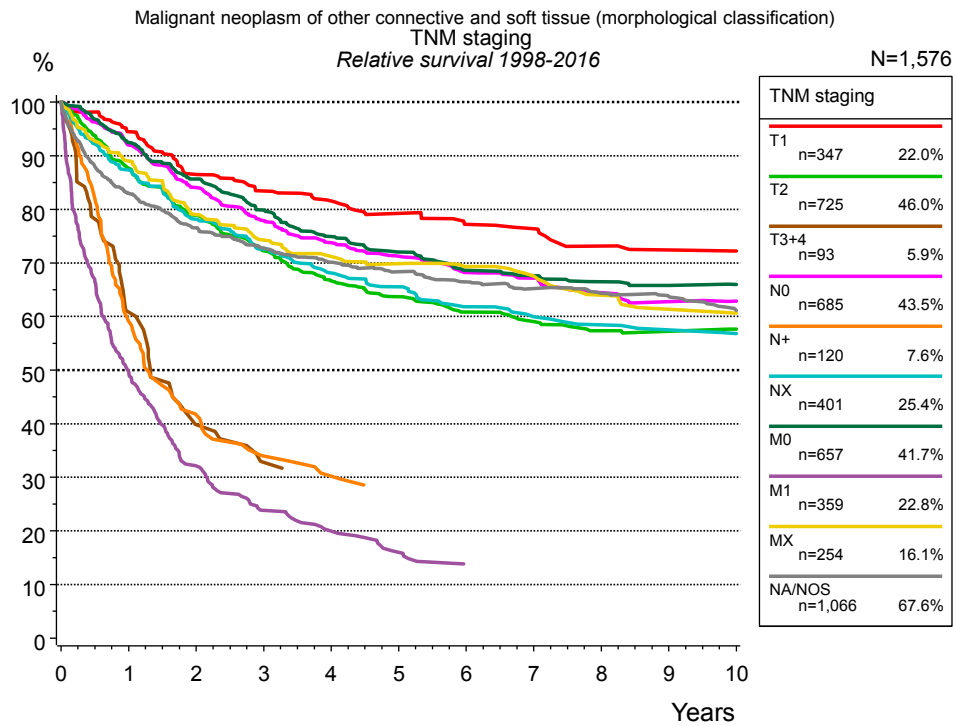


Figure 4c. Relative survival of patients with sarcoma (morphological classification) by TNM staging. For 1,578 of 2,642 cases diagnosed between 1998 and 2016 valid data could be obtained for this item. For a total of 1,576 cases an evaluable classification was established. The accumulated percentage exceeds the 100 % value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 1,066 patients with missing values regarding TNM staging (40.3 % of 2,642 patients, the percent values of all other categories are related to n=1,576).

Years	TNM staging													
	T1 n=347		T2 n=725		T3+4 n=93		N0 n=685		N+ n=120		NX n=401		M0 n=657	
	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	93.1	94.5	86.2	87.7	60.0	60.8	90.8	92.0	58.4	59.1	85.6	87.4	91.2	92.4
2	84.3	86.5	76.4	78.9	38.5	39.8	81.7	84.1	41.0	41.7	75.4	78.1	83.5	85.7
3	80.0	83.4	68.9	72.3	31.5	32.8	74.8	77.9	33.2	34.0	68.8	72.6	76.9	79.9
4	77.2	81.6	62.8	66.6			70.0	73.8	29.8	30.2	63.6	68.1	71.2	74.9
5	74.1	79.3	59.1	63.7			66.6	71.2	27.4	28.4	60.3	65.5	67.5	72.0
6	70.9	77.2	55.6	60.9			62.9	68.2	27.4	28.2	55.7	61.8	63.6	68.6
7	69.7	76.4	53.4	59.1			61.3	67.1	27.4	27.9	53.7	60.0	62.1	67.6
8	65.7	73.1	51.0	57.4			58.2	64.4			51.4	58.5	60.3	66.5
9	64.2	72.4	50.3	57.3			55.8	62.8			50.1	57.5	59.2	65.8
10	62.5	72.2	49.8	57.6			55.0	62.8			48.6	56.8	58.3	66.0

<i>cont'd</i>	TNM staging					
	M1 n=359		MX n=254		NA/NOS n=1,066	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
Years						
0	100.0	100.0	100.0	100.0	100.0	100.0
1	48.8	49.6	87.2	89.0	81.1	83.0
2	31.2	32.1	76.3	79.0	73.3	76.5
3	23.0	23.8	70.5	74.3	68.3	72.8
4	19.4	20.0	66.6	71.2	64.6	70.1
5	15.4	16.0	64.4	69.8	61.8	68.3
6	13.0	13.9	62.5	69.3	59.0	66.4
7	13.0	13.5	60.4	67.5	56.8	65.2
8			56.1	64.0	55.0	64.3
9			53.3	61.3	53.6	63.8
10			51.5	60.6	50.3	61.1

Table 4d. Observed (obs.) and relative (rel.) survival of patients with sarcoma (morphological classification) by TNM staging for period 1998-2016 (N=1,576).

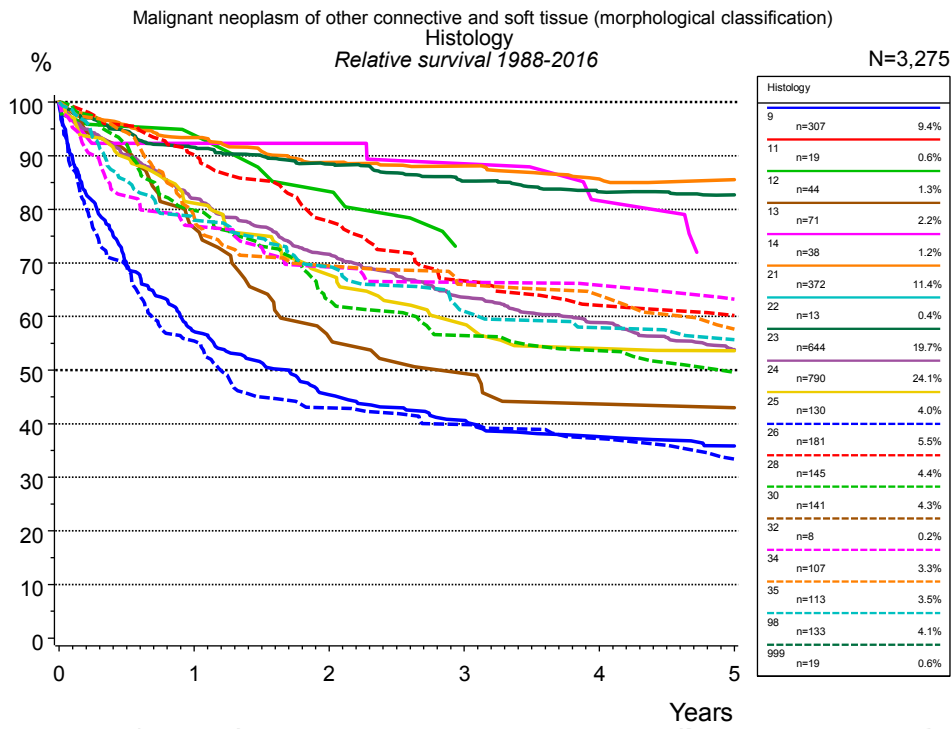


Figure 4e. Relative survival of patients with sarcoma (morphological classification) by histology. For 3,275 of 3,275 cases diagnosed between 1988 and 2016 valid data could be obtained for this item. Subgroups with sample size <20 are omitted from the chart.

Years	Histology													
	9 n=307		12 n=44		13 n=71		14 n=38		21 n=372		23 n=644		24 n=790	
	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	55.5	57.2	93.0	93.9	76.9	76.5	92.0	92.3	91.7	93.4	89.8	91.6	80.4	82.0
2	42.9	45.4	82.2	83.3	56.4	56.1	92.0	92.3	85.6	88.8	85.1	88.5	69.0	71.6
3	37.7	40.6	68.5	73.1	50.2	49.4	86.2	88.5	83.4	88.1	80.5	85.3	60.1	63.6
4	33.8	37.6	68.5	72.5	43.8	43.7	76.9	81.6	79.9	85.7	77.2	83.3	54.8	58.8
5	31.7	35.8	68.5	72.0	43.8	43.0			78.5	85.5	75.3	82.7	49.2	53.8

cont'd Years	Histology													
	25 n=130		26 n=181		28 n=145		30 n=141		34 n=107		35 n=113		98 n=133	
	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	81.0	81.1	53.7	55.5	90.3	90.2	78.7	79.8	76.2	76.9	77.5	78.5	76.7	78.0
2	67.4	67.8	40.7	42.9	77.0	77.7	61.4	63.0	68.4	69.2	67.3	69.4	67.9	69.3
3	58.6	58.5	37.0	39.9	66.2	66.7	54.2	56.5	64.9	66.4	61.8	66.0	58.4	61.0
4	53.9	54.1	33.7	37.2	61.2	62.1	50.8	53.6	63.4	65.8	59.2	64.0	54.6	57.9
5	52.9	53.6	29.4	33.4	59.3	60.2	46.4	49.6	60.2	63.2	52.6	57.6	52.4	55.7

Table 4f. Observed (obs.) and relative (rel.) survival of patients with sarcoma (morphological classification) by histology for period 1988-2016 (N=3,275).

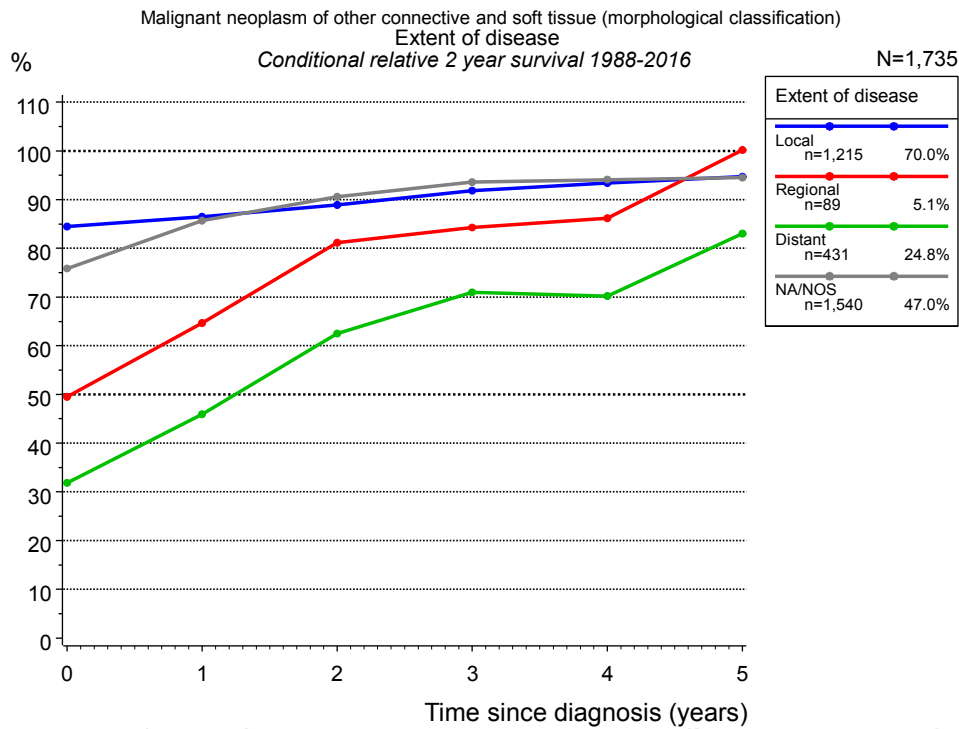


Figure 4g. Conditional relative 2-year survival of patients with sarcoma (morphological classification) by extent of disease. For 1,909 of 3,275 cases diagnosed between 1988 and 2016 valid data could be obtained for this item. For a total of 1,735 cases an evaluable classification was established. The grey line represents the subgroup of 1,540 patients with missing values regarding extent of disease (47.0 % of 3,275 patients, the percent values of all other categories are related to n=1,735).

Years	Extent of disease							
	Local		Regional		Distant		NA/NOS	
	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs
0	1,215	84.4	89	49.5	431	31.8	1,540	75.9
1	1,033	86.5	57	64.7	198	45.9	1,187	85.7
2	878	88.9	40	81.2	118	62.5	1,022	90.6
3	749	91.8	30	84.3	76	70.9	888	93.6
4	628	93.4	27	86.1	60	70.2	789	94.1
5	539	94.7	22	100.2	44	83.1	701	94.5

Table 4h. Conditional relative 2-year survival of patients with sarcoma (morphological classification) by extent of disease for period 1988-2016 (N=1,735).

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 4e). 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 91.8% (n=749).

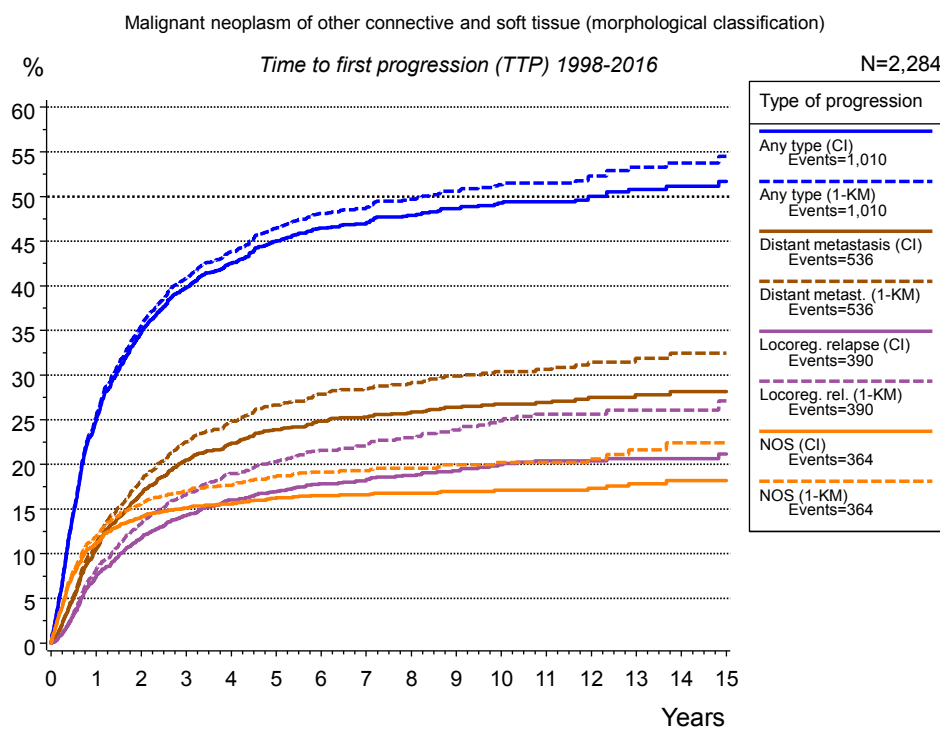


Figure 5a. Time to first progression of 2,284 patients with sarcoma (morphological classification) diagnosed between 1998 and 2016 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

Years	Type of progression						
	Any type (CI)	Any type (1-KM)	Distant metastasis (CI)	Distant metast. (1-KM)	Locoreg. relapse (CI)	Locoreg. rel. (1-KM)	NOS (CI)
	n=2,284 %	n=2,284 %	n=2,284 %	n=2,284 %	n=2,284 %	n=2,284 %	n=2,284 %
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	25.0	25.4	10.5	11.2	7.4	8.2	11.2
2	34.7	35.5	16.7	18.2	11.7	13.3	14.1
3	39.8	40.8	20.5	22.5	14.2	16.6	15.1
4	42.6	43.8	22.3	24.8	16.0	19.0	15.6
5	45.0	46.4	23.9	26.7	17.0	20.3	16.2
6	46.5	48.1	24.9	27.9	17.9	21.6	16.5
7	47.0	48.7	25.3	28.5	18.3	22.2	16.6
8	47.9	49.7	25.9	29.2	18.8	23.0	16.8
9	48.6	50.6	26.4	29.9	19.3	23.8	17.0
10	49.3	51.3	26.8	30.4	20.0	24.9	17.1
11	49.4	51.5	26.9	30.6	20.4	25.6	17.1
12	50.0	52.3	27.5	31.4	20.4	25.6	17.3
13	50.8	53.3	27.8	31.9	20.7	26.1	17.8
14	51.2	53.8	28.1	32.4	20.7	26.1	18.2
15	51.7	54.5	28.1	32.4	21.2	27.1	18.2

Type of progression	
<i>cont'd</i>	NOS (1-KM) n=2,284
Years	%
0	0.0
1	12.0
2	15.6
3	17.0
4	17.7
5	18.6
6	19.2
7	19.3
8	19.6
9	20.0
10	20.2
11	20.2
12	20.6
13	21.7
14	22.4
15	22.4

Table 5b. Time to first progression of patients with sarcoma (morphological classification) for period 1998-2016 (N=2,284).

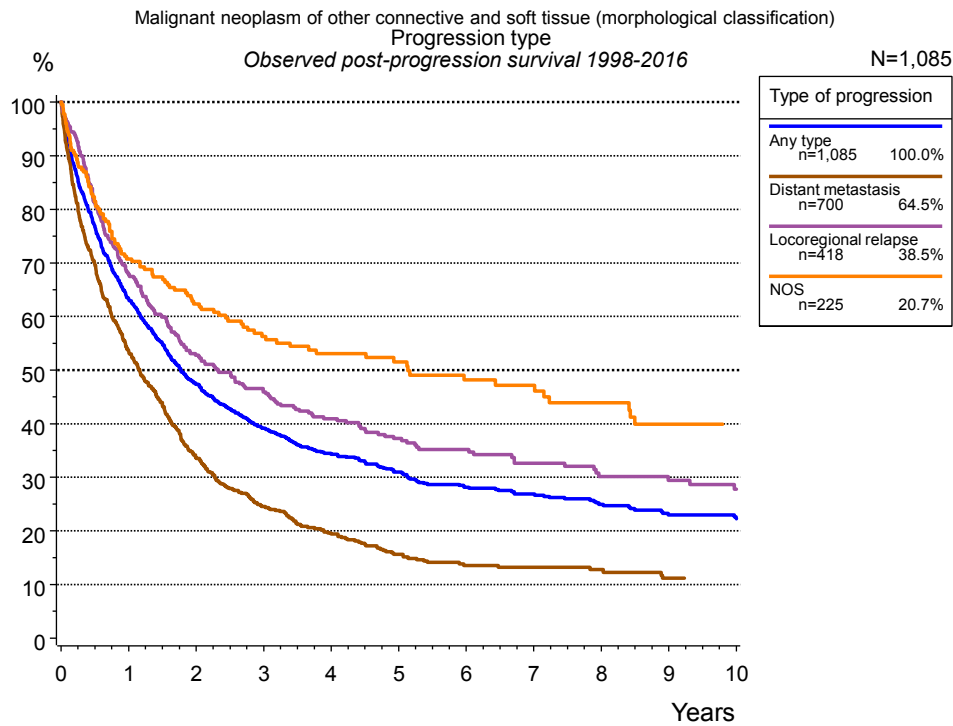


Figure 5c. Observed post-progression survival of 1,085 patients with sarcoma (morphological classification) diagnosed between 1998 and 2016. These 1,085 patients with documented progression events during their course of disease represent 41.3 % of the totally 2,628 evaluated cases (incl. M1, n=344, 13.1 %). Patients with cancer relapse documented via death certificates only were excluded (n=269, 10.2 %). 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 potentially considered in more than one subgroup.

Years	Type of progression			
	Any type n=1,085 %	Distant metastasis n=700 %	Locoregional relapse n=418 %	NOS n=225 %
0	100.0	100.0	100.0	100.0
1	63.2	53.5	68.0	70.7
2	47.3	33.5	52.8	62.3
3	39.2	24.6	45.9	56.3
4	34.4	19.6	41.0	53.1
5	30.9	15.6	37.2	51.6
6	28.1	13.5	35.2	48.2
7	26.9	13.2	32.6	47.2
8	25.0	12.8	30.2	43.9
9	23.0	11.2	29.5	39.9
10	22.2		27.8	

Table 5d. Observed post-progression survival of patients with sarcoma (morphological classification) for period 1998-2016 (N=1,085).

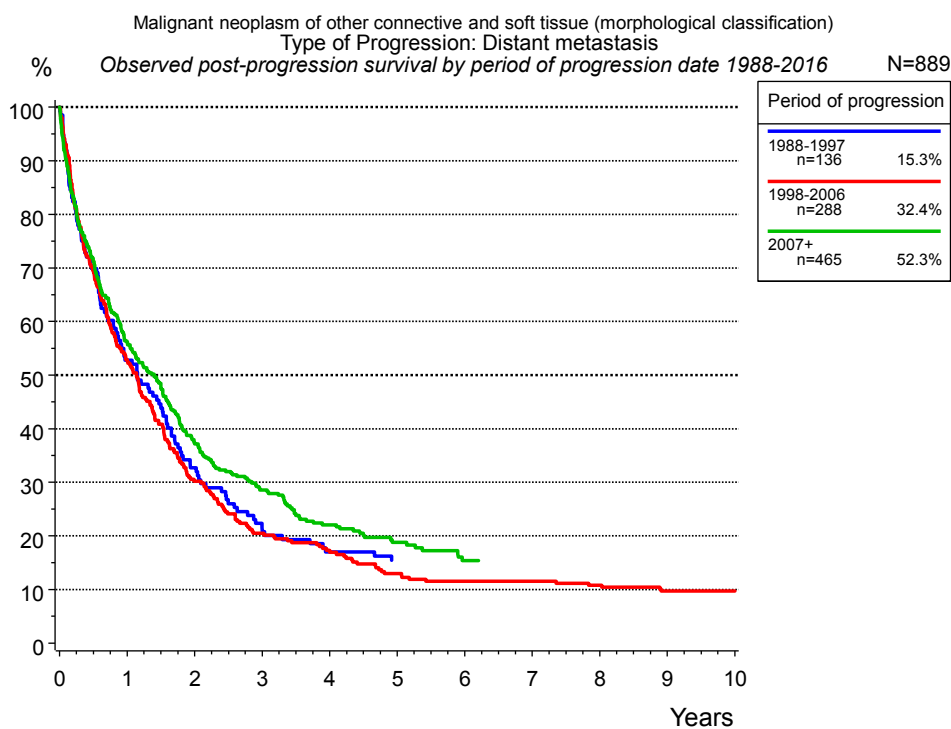


Figure 5e. Observed post-progression (distant metastasis) survival of 889 patients with sarcoma (morphological classification) diagnosed between 1988 and 2016 by period of progression.

Years	Period of progression		
	1988-1997 n=136 %	1988-2006 n=288 %	2007+ n=465 %
0	100.0	100.0	100.0
1	52.8	52.6	56.1
2	32.7	30.2	37.2
3	21.6	20.5	28.6
4	17.0	17.3	22.0
5		12.9	18.8
6		11.5	15.4
7		11.5	
8		10.8	
9		9.7	
10		9.7	

Table 5f. Observed post-progression (distant metastasis) survival of patients with sarcoma (morphological classification) for period 1988-2016 by period of progression (N=889).

Shortcuts

MCR Munich Cancer Registry, Germany

NCI National Cancer Institute, USA

SEER Surveillance, Epidemiology, and End Results, USA

UICC Union 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-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

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