Munich Cancer Registry



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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

C45-C49: Mesoth. and soft tissue ca.

Year of diagnosis	1988-2012
Patients	4,403
Diseases	4,419
Cases evaluated	2,389
Creation date	03/25/2014
Export date	02/12/2014
Population	4.5 m



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C4549E.pdf

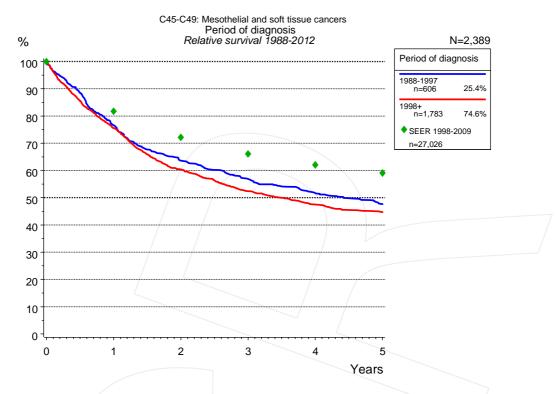


Figure 1a. Relative survival of patients with mesoth. and soft tissue ca. by period of diagnosis. Included in the evaluation are 2,389 cases diagnosed between 1988 and 2012.

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 2009, and are represented by green 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	199	98+					
	n=6	606	n=1,	783					
Years	obs. %	rel. %	obs. %	rel. %					
0	100.0	100.0	100.0	100.0					
1	74.9	76.6	73.6	75.5					
2	61.2	63.6	57.7	60.3					
3	53.9	56.8	49.2	52.4					
4	48.0	51.7	43.9	47.5					
5	43.6	47.7	40.6	44.7					

Table 1b. Observed (obs.) and relative (rel.) survival of patients with mesoth. and soft tissue ca. by period of diagnosis for period 1988-2012 (N=2,389).

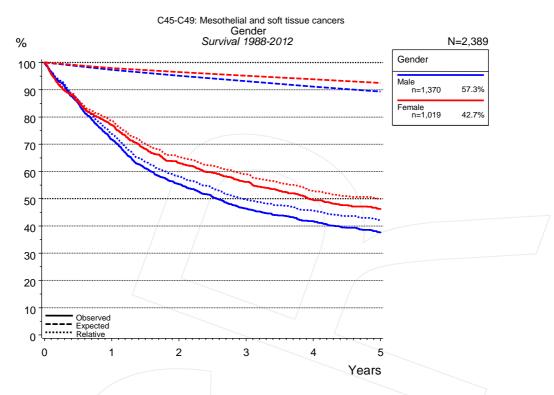


Figure 2a. Survival of patients with mesoth. and soft tissue ca. by gender. Included in the evaluation are 2,389 cases diagnosed between 1988 and 2012.

Gender									
	Ma		Fem	nale					
	n=1,	370	n=1,	019					
Years	obs. %	rel. %	obs. %	rel. %					
0	100.0	100.0	100.0	100.0					
1	71.7	73.7	77.0	78.6					
2	55.3	58.1	63.1	65.3					
3	46.4	49.7	56.2	59.0					
4	41.7	45.6	49.6	52.7					
5	37.7	42.1	46.3	49.9					

Table 2b. Observed (obs.) and relative (rel.) survival of patients with mesoth. and soft tissue ca. by gender for period 1988-2012 (N=2,389).

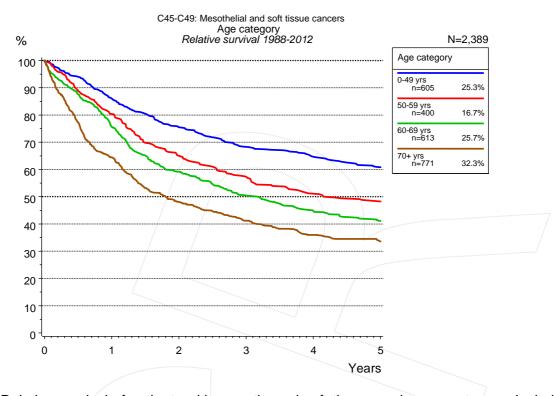


Figure 3a. Relative survival of patients with mesoth. and soft tissue ca. by age category. Included in the evaluation are 2,389 cases diagnosed between 1988 and 2012.

Age category									
	0-49	yrs (50-59	50-59 yrs		9 yrs	70+	yrs	
	n=6	n=605		n=400		313	n=7	′ 71	
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	85.9	86.0	79.9	80.4	74.5	75.6	60.8	64.5	
2	75.3	75.5	64.3	65.0	57.5	59.2	42.9	48.1	
3	68.1	68.3	56.3	57.3	48.3	50.4	34.6	41.2	
4	64.5	64.6	49.9	51.1	42.2	44.8	28.5	36.0	
5	60.5	60.8	46.8	48.3	38.1	41.1	24.8	33.6	

Table 3b. Observed (obs.) and relative (rel.) survival of patients with mesoth. and soft tissue ca. by age category for period 1988-2012 (N=2,389).



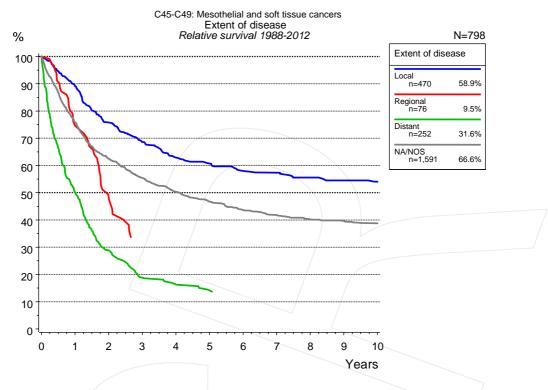


Figure 4a. Relative survival of patients with mesoth. and soft tissue ca. by extent of disease. For 1,193 of 2,389 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. For a total of 798 cases an evaluable classification was established. The grey line represents the subgroup of 1,591 patients with missing values regarding extent of disease (66.6% of 2,389 patients, the percent values of all other categories are related to n=798).

Extent of disease									
	Lo	cal	Regi	onal	Dist	tant	NA/I	NOS	
	n=4	170	n=	76	n=2	252	n=1,	591	
Years	obs. %	rel. %							
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1	87.5	89.1	73.5	74.6	49.4	50.1	73.8	75.8	
2	73.2	75.7	48.1	48.3	28.2	28.8	59.5	62.4	
3	65.3	68.6	32.5	31.6	18.3	18.8	51.9	55.4	
4	58.9	62.9			16.1	16.3	46.2	50.3	
5	56.2	60.7			13.6	14.1	42.1	46.7	
6	53.0	58.0			12.9	13.1	38.6	43.6	
7	51.6	57.3					36.4	41.8	
8	49.4	55.5					34.3	40.2	
9	47.7	54.5					33.2	39.5	
10	46.3	54.0					31.9	38.7	

Table 4b. Observed (obs.) and relative (rel.) survival of patients with mesoth. and soft tissue ca. by extent of disease for period 1988-2012 (N=798).

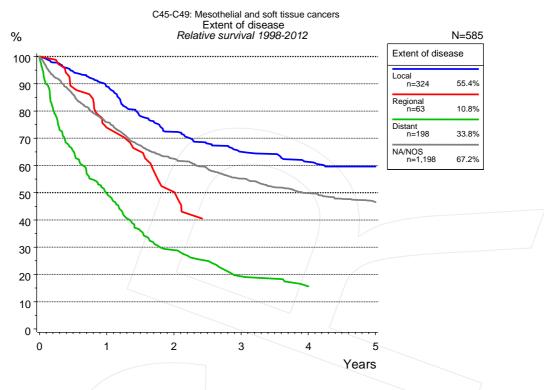


Figure 4c. Relative survival of patients with mesoth. and soft tissue ca. by extent of disease. For 912 of 1,783 cases diagnosed between 1998 and 2012 valid data could be obtained for this item. For a total of 585 cases an evaluable classification was established. The grey line represents the subgroup of 1,198 patients with missing values regarding extent of disease (67.2% of 1,783 patients, the percent values of all other categories are related to n=585).

Extent of disease									
	Loc	Local		Regional n=63		ant	NA/N	NOS	
	n=3	n=324				198	n=1,	198	
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	87.4	89.0	72.7	73.9	49.2	49.8	73.9	75.9	
2	70.0	72.3	51.0	50.3	28.4	28.9	59.4	62.4	
3	62.0	65.1			18.9	19.3	51.5	55.2	
4	57.8	61.3			15.8	15.6	45.7	49.9	
5	55.7	59.6					41.9	46.6	

Table 4d. Observed (obs.) and relative (rel.) survival of patients with mesoth. and soft tissue ca. by extent of disease for period 1998-2012 (N=585).

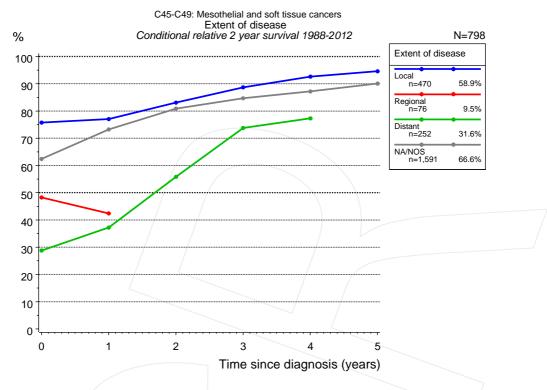


Figure 4e. Conditional relative 2-year survival of patients with mesoth. and soft tissue ca. by extent of disease. For 1,193 of 2,389 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. For a total of 798 cases an evaluable classification was established. The grey line represents the subgroup of 1,591 patients with missing values regarding extent of disease (66.6% of 2,389 patients, the percent values of all other categories are related to n=798).

Extent of disease								
	Loc	al	Regio	onal	Dist	ant	NA/N	IOS
		Cond.		Cond.		Cond.		Cond.
		surv. %		surv. %		surv. %		surv. %
Years	n	2 yrs	n	2 yrs	n	2 yrs	n	2 yrs
0	470	75.7	76	48.3	252	28.8	1,591	62.4
1	393	77.0	50	42.4	114	37.2	1,116	73.2
2	310	83.1			61	55.8	821	80.9
3	249	88.7			35	73.7	652	84.7
4	204	92.6			26	77.3	518	87.2
5	179	94.6					423	90.1

Table 4f. Conditional relative 2-year survival of patients with mesoth. and soft tissue ca. by extent of disease for period 1988-2012 (N=798).

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 88.7% (n=249).

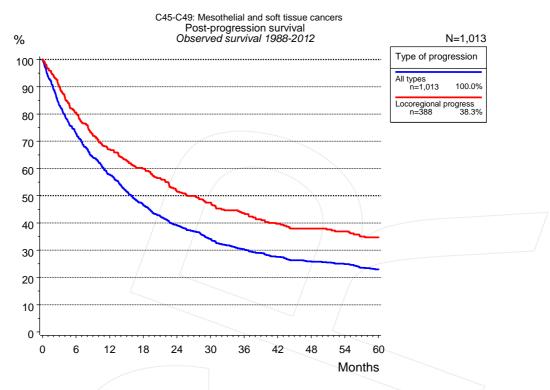


Figure 5a. Observed post-progression survival of 1,013 patients with mesoth. and soft tissue ca. diagnosed between 1988 and 2012 (incl. M1). These 1,013 patients with documented progression events during their course of disease represent 42.4% of the totally 2,389 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=391, 16.4%). Multiple progression types on different sites are included in the evaluation even when not occurring synchronously.

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	Locoregional progress						
	n=1,013	n=388						
Months	%	%						
0	100.0	100.0						
12	57.8	67.0						
24	39.2	51.7						
36	30.3	43.6						
48	25.9	38.0						
60	23.0	34.7						

Table 5b. Observed post-progression survival of patients with mesoth. and soft tissue ca. for period 1988-2012 (N=1,013).

Shortcuts

AS Assembled survival chart (observed, expected, relative)

CS Conditional survival

DCO Death certificate only. The death certificate provides the only notification to the registry.

MCR Munich Cancer Registry, Germany (Tumorregister München)

NA Not available

NCI National Cancer Institute, USA

NOS Not otherwise specified

OS Observed/overall survival (Kaplan-Meier estimate)

PPS Post-progression survival

RS Relative Survival. Ratio of observed and expected survival (derived from the normal population)

SEER Surveillance, Epidemiology, and End Results, USA

TTP Time to progression

Date of entry: Date of diagnosis

Event (Progression): First local recurrence, lymph node relapse or distant metastasis, unspecified

recurrence

First all-cause recurrence is illustrated by survival curves (Kaplan-Meier estimate).

First local recurrence, lymph node relapse or distant metastasis are depicted cumulatively, where

applicable ("reverse" Kaplan-Meier estimate).

UICC Union for International Cancer Control, Geneva

Recommended Citation

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surv_C4549E.pdf

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