

# Munich Cancer Registry



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

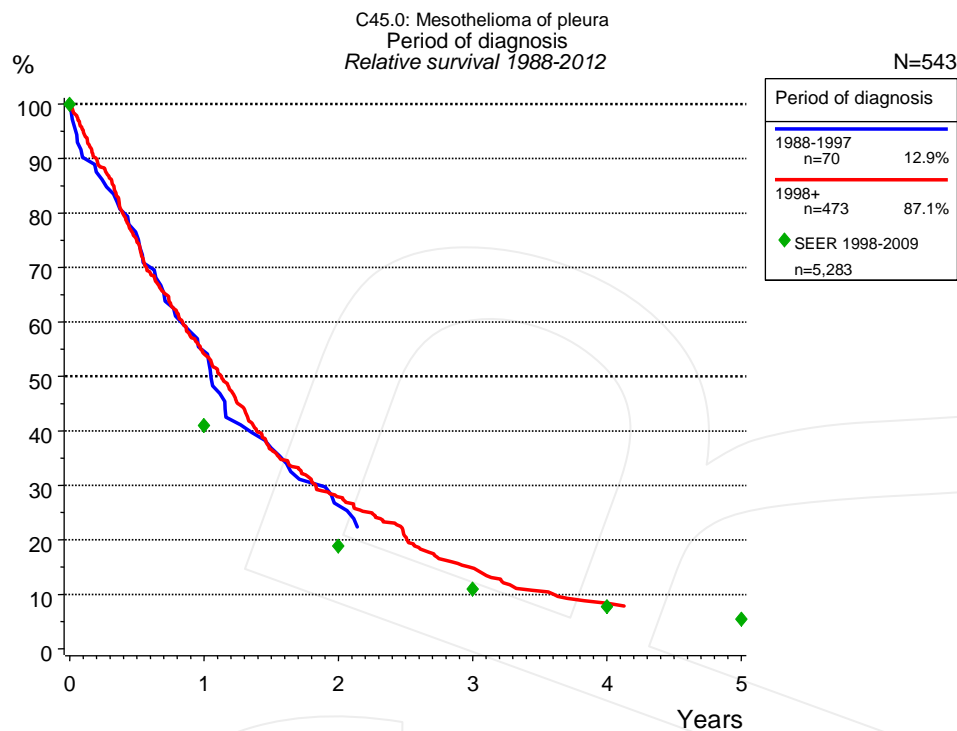
## Cancer statistics: Survival

### C45.0: Pleural mesothelioma

Year of diagnosis	1988-2012
Patients	1,051
Diseases	1,052
Cases evaluated	543
Creation date	03/25/2014
Export date	02/12/2014
Population	4.5 m



[http://www.tumorregister-muenchen.de/en/facts/surv/surv\\_C450\\_E.pdf](http://www.tumorregister-muenchen.de/en/facts/surv/surv_C450_E.pdf)



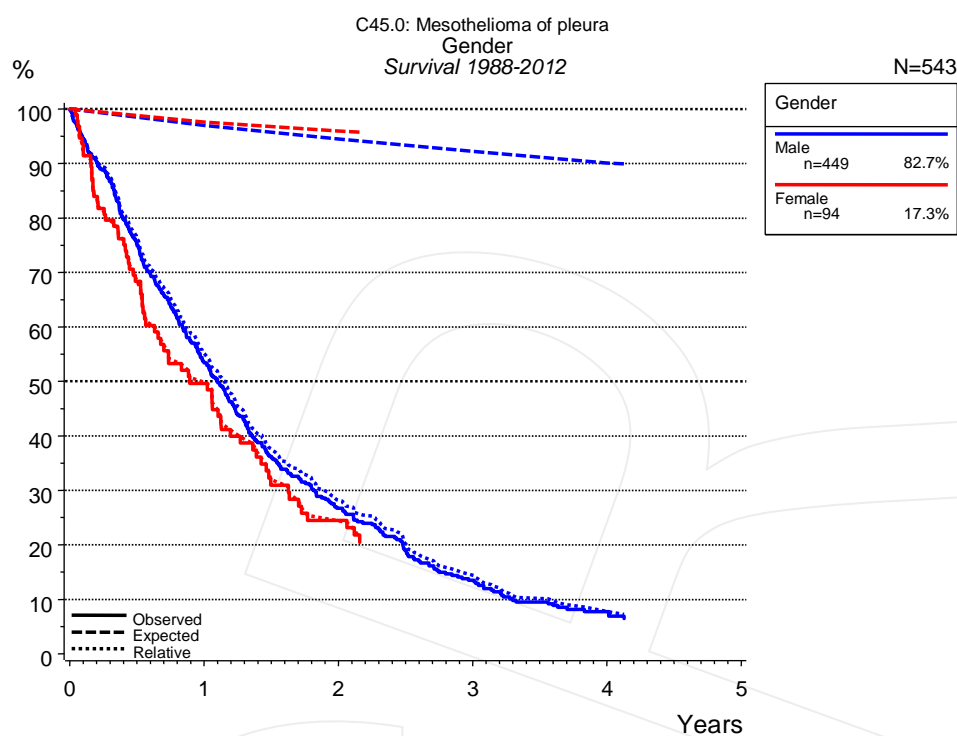
**Figure 1a.** Relative survival of patients with pleural mesothelioma by period of diagnosis. Included in the evaluation are 543 cases diagnosed between 1988 and 2012.

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.

Years	Period of diagnosis			
	1988-1997 n=70		1998+ n=473	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	54.3	54.6	52.5	54.1
2	25.7	26.3	26.4	27.9
3			13.9	14.8
4			8.0	8.4

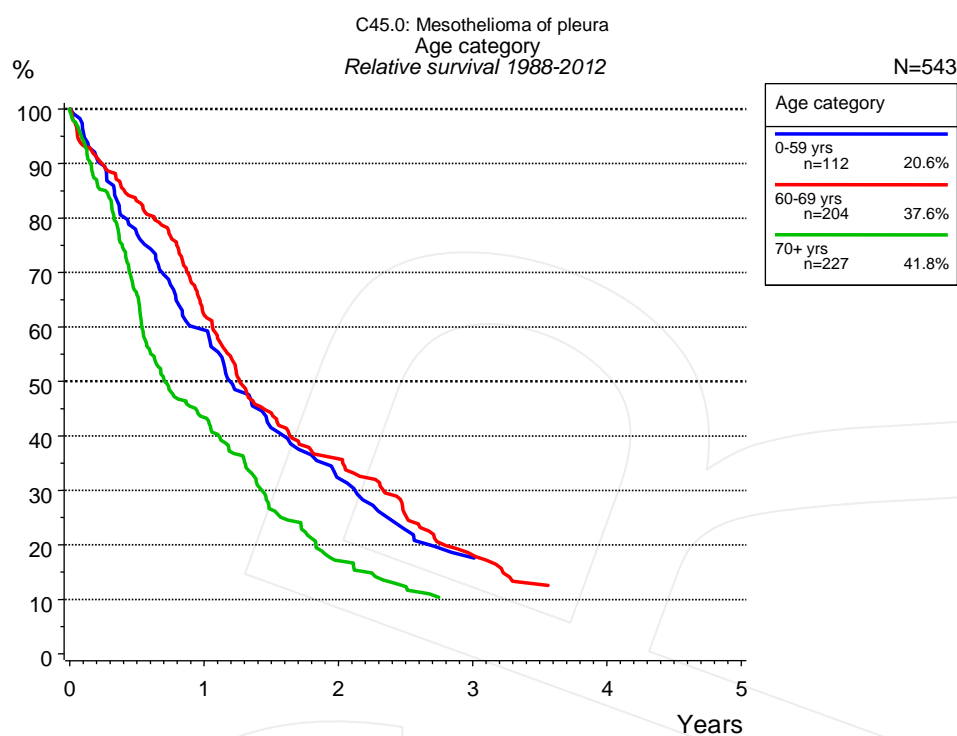
**Table 1b.** Observed (obs.) and relative (rel.) survival of patients with pleural mesothelioma by period of diagnosis for period 1988-2012 (N=543).



**Figure 2a.** Survival of patients with pleural mesothelioma by gender. Included in the evaluation are 543 cases diagnosed between 1988 and 2012.

Years	Gender			
	Male n=449		Female n=94	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	53.4	55.0	49.6	49.8
2	26.7	28.2	24.5	24.4
3	13.5	14.4		
4	7.8	7.7		

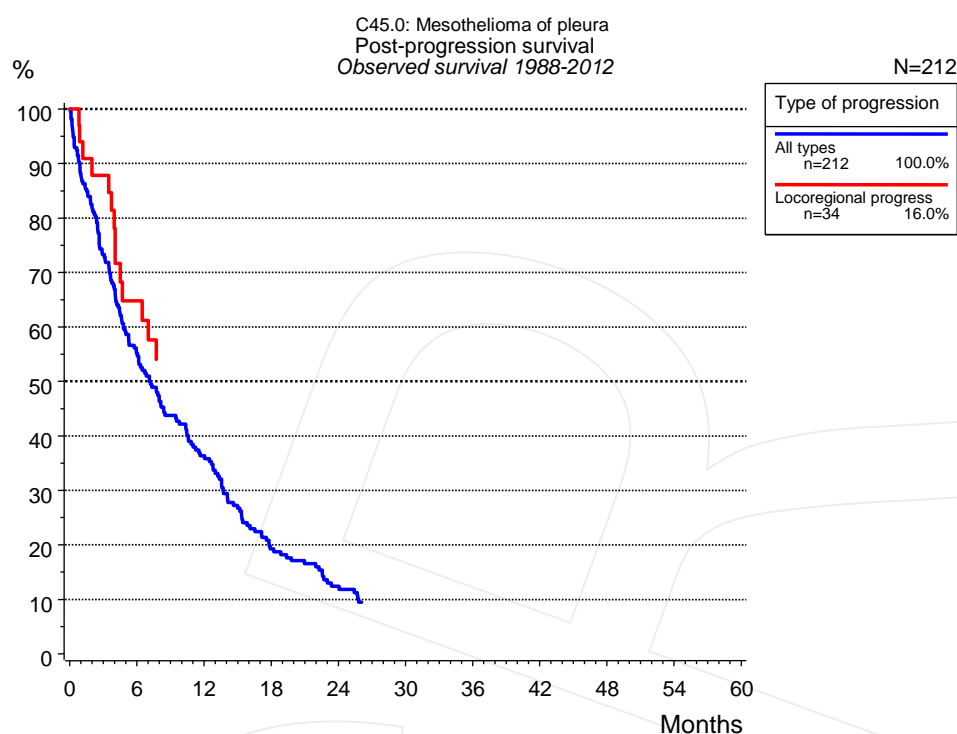
**Table 2b.** Observed (obs.) and relative (rel.) survival of patients with pleural mesothelioma by gender for period 1988-2012 (N=543).



**Figure 3a.** Relative survival of patients with pleural mesothelioma by age category. Included in the evaluation are 543 cases diagnosed between 1988 and 2012.

Years	Age category					
	0-59 yrs n=112		60-69 yrs n=204		70+ yrs n=227	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	59.8	59.4	61.2	62.2	41.4	43.4
2	31.9	32.2	35.0	35.8	15.6	17.1
3	18.2	17.6	17.6	18.1		

**Table 3b.** Observed (obs.) and relative (rel.) survival of patients with pleural mesothelioma by age category for period 1988-2012 (N=543).



**Figure 5a.** Observed post-progression survival of 212 patients with pleural mesothelioma diagnosed between 1988 and 2012 (incl. M1). These 212 patients with documented progression events during their course of disease represent 39.0% of the totally 543 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=215, 39.6%). 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 potentially considered in more than one subgroup.

Months	Type of progression	
	All types n=212 %	Locoregional progress n=34 %
0	100.0	100.0
12	36.3	
24	12.4	

**Table 5b.** Observed post-progression survival of patients with pleural mesothelioma for period 1988-2012 (N=212).

**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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