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

C90: Plasmacytoma

Year of diagnosis	1988-2012
Patients	3,683
Diseases	3,685
Cases evaluated	1,648
Creation date	03/25/2014
Export date	02/12/2014
Population	4.5 m



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C90__E.pdf

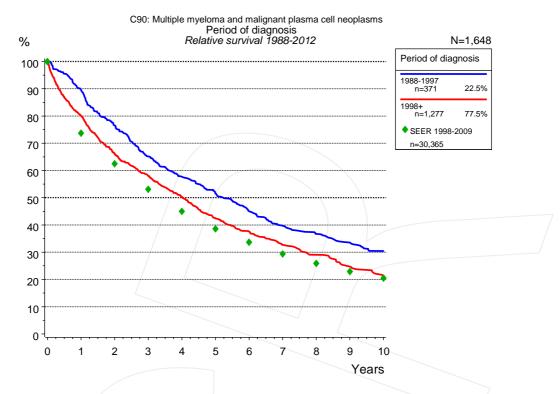


Figure 1a. Relative survival of patients with plasmacytoma by period of diagnosis. Included in the evaluation are 1,648 cases diagnosed between 1988 and 2012.

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 1998-						
	n=3	371	n=1,277				
Years	obs. %	rel. %	obs. %	rel. %			
0	100.0	100.0	100.0	100.0			
1	87.3	89.5	77.9	80.0			
2	73.0	76.5	62.6	66.0			
3	60.7	65.1	53.8	57.9			
4	52.5	57.7	45.5	50.3			
5	45.9	51.6	37.6	42.4			
6	39.1	45.0	32.5	37.5			
7	33.9	39.7	27.8	32.7			
8	30.6	36.7	24.2	29.0			
9	27.6	33.5	20.3	24.7			
10	24.3	30.4	17.2	21.4			

Table 1b. Observed (obs.) and relative (rel.) survival of patients with plasmacytoma by period of diagnosis for period 1988-2012 (N=1,648).

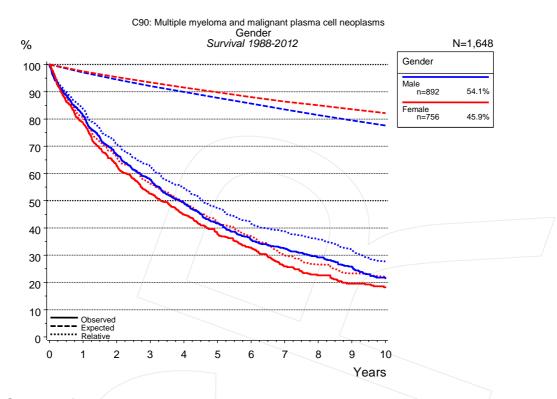


Figure 2a. Survival of patients with plasmacytoma by gender. Included in the evaluation are 1,648 cases diagnosed between 1988 and 2012.

Gender								
	Ma	ale	Female					
	n=8	392	n=756					
Years	obs. %	rel. %	obs. %	rel. %				
0	100.0	100.0	100.0	100.0				
1	81.2	83.6	78.6	80.5				
2	66.9	70.8	62.9	65.8				
3	57.8	62.6	52.5	56.2				
4	49.1	54.6	44.9	48.9				
5	41.6	47.4	37.7	42.0				
6	35.5	41.5	32.6	37.0				
7	32.5	38.7	25.9	29.8				
8	29.2	35.8	22.6	26.6				
9	25.8	32.2	19.6	23.3				
10	21.5	27.7	18.2	22.0				

Table 2b. Observed (obs.) and relative (rel.) survival of patients with plasmacytoma by gender for period 1988-2012 (N=1,648).

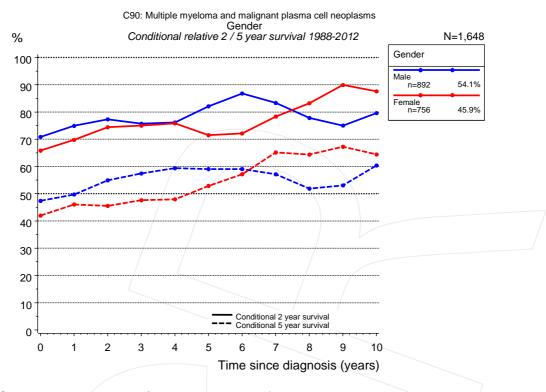


Figure 2c. Conditional relative 2 / 5-year survival of patients with plasmacytoma by gender. For 1,648 of 1,648 cases diagnosed between 1988 and 2012 valid data could be obtained for this item.

		G	ender	•		
		Male		F	emale	
		Cond. s	urv. %		Cond. s	urv. %
Years	n	2 yrs	5 yrs	n	2 yrs	5 yrs
0	892	70.8	47.4	756	65.8	42.0
1	675	74.9	49.7	556	69.8	46.0
2	515	77.3	54.9	414	74.4	45.5
3	391	75.7	57.4	320	75.0	47.6
4	297	76.2	59.4	249	75.8	47.9
5	219	82.1	59.0	183	71.5	52.9
6	167	86.8	59.0	136	72.1	57.2
7	143	83.3	57.1	101	78.3	65.1
8	118	77.8	51.8	78	83.2	64.4
9	93	75.0	53.0	61	89.9	67.2
10	70	79.6	60.4	52	87.6	64.4
3 4 5 6 7 8 9	391 297 219 167 143 118 93	75.7 76.2 82.1 86.8 83.3 77.8 75.0	57.4 59.4 59.0 59.0 57.1 51.8 53.0	320 249 183 136 101 78 61	75.0 75.8 71.5 72.1 78.3 83.2 89.9	47. 47. 52. 57. 65. 64. 67.

Table 2d. Conditional relative 2 / 5-year survival of patients with plasmacytoma by gender for period 1988-2012 (N=1,648).

Conditional relative survival rates refer to the relative survival probability, in this case for 2 and 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 2a). 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 gender="Male", who are alive at least 3 years after cancer diagnosis, the conditional relative 2-year survival rate is 75.7% (n=391).

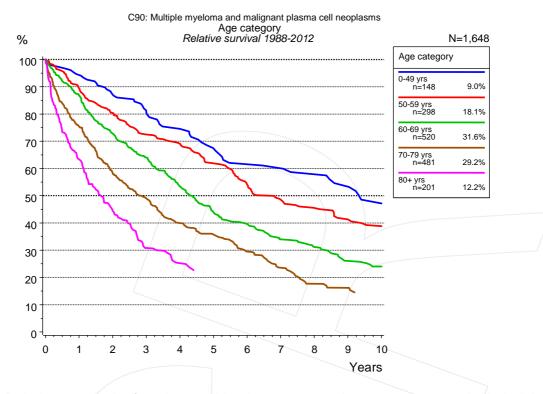


Figure 3a. Relative survival of patients with plasmacytoma by age category. Included in the evaluation are 1,648 cases diagnosed between 1988 and 2012.

Age category										
	0-49 yrs 50-59 yrs		60-69 yrs		70-79	70-79 yrs		80+ yrs		
	n=148		n=298 n=52		520	n=481		n=201		
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	94.5	94.3	89.1	89.4	85.6	86.7	72.7	75.3	58.0	63.3
2	87.1	87.1	79.5	80.4	70.7	72.8	54.0	58.1	37.1	44.4
3	80.6	80.6	70.9	72.4	61.2	64.0	43.7	49.0	22.9	30.8
4	73.7	74.5	67.2	69.0	50.2	53.4	34.0	40.0	17.0	25.2
5	66.5	67.3	59.5	61.9	40.4	43.9	28.8	35.7		
6	61.0	61.5	51.6	54.1	35.7	39.6	22.5	29.5		
7	59.8	60.1	46.0	48.5	29.9	34.0	17.0	23.6		
8	57.3	57.8	42.5	45.5	26.8	31.2	12.0	17.6		
9	53.1	53.3	38.8	41.3	21.8	26.0	10.5	16.2		
10	47.0	47.1	35.9	38.8	19.6	24.0				

Table 3b. Observed (obs.) and relative (rel.) survival of patients with plasmacytoma by age category for period 1988-2012 (N=1,648).

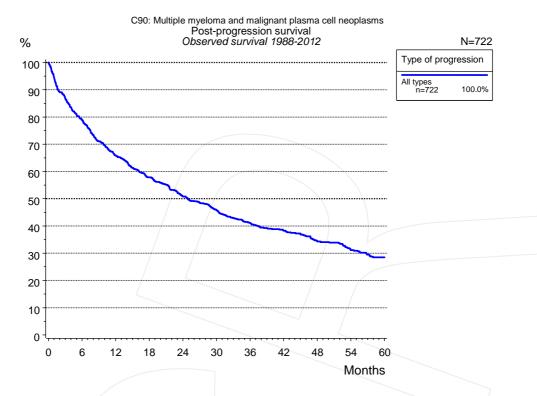


Figure 5a. Observed post-progression survival of 722 patients with plasmacytoma diagnosed between 1988 and 2012 (incl. M1). These 722 patients with documented progression events during their course of disease represent 43.8% of the totally 1,648 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=312, 18.9%).

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 n=722						
Months	11=722 %					
0	100.0					
12	65.8					
24	50.8					
36	41.1					
48	34.3					
60	28.5					

Table 5b. Observed post-progression survival of patients with plasmacytoma for period 1988-2012 (N=722).

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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