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

C88,C90: Immunoprolif. disease

Year of diagnosis	1988-2013
Patients	4,102
Diseases	4,106
Cases evaluated	1,758
Creation date	05/13/2015
Export date	12/30/2014
Population	4.64 m



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C8890E.pdf

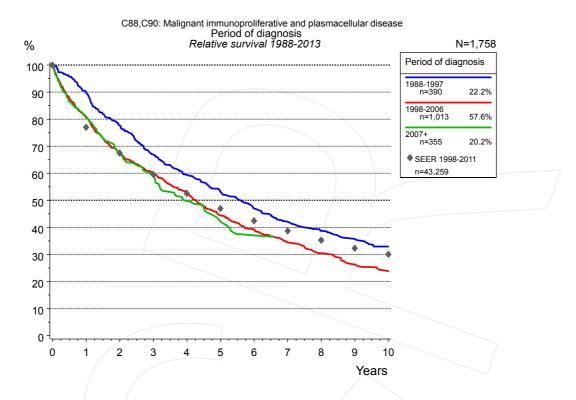


Figure 1a. Relative survival of patients with immunoprolif. disease by period of diagnosis. Included in the evaluation are 1,758 cases diagnosed between 1988 and 2013.

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 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-	2006	200)7+	
	n=3	390	n=1,	013	n=3	355	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	100.0	100.0	
1	87.7	89.9	78.8	80.9	77.9	80.4	
2	74.0	77.6	63.9	67.3	63.8	67.2	
3	62.4	66.9	55.8	60.0	54.4	59.0	
4	54.1	59.4	47.8	52.7	45.0	49.8	
5	47.3	53.1	39.4	44.3	37.5	42.2	
6	40.8	47.0	34.0	39.2	32.6	37.1	
7	35.9	42.1	29.3	34.4	30.8	33.0	
8	32.2	38.7	25.4	30.4			
9	29.4	35.8	21.5	26.2			
10	26.2	32.9	19.0	23.8			

Table 1b. Observed (obs.) and relative (rel.) survival of patients with immunoprolif. disease by period of diagnosis for period 1988-2013 (N=1,758).

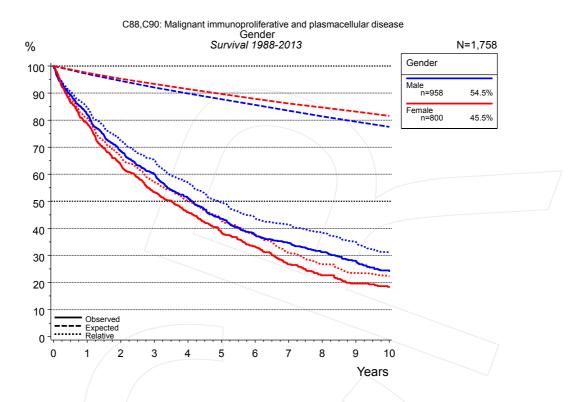


Figure 2a. Survival of patients with immunoprolif. disease by gender. Included in the evaluation are 1,758 cases diagnosed between 1988 and 2013.

Gender									
	Ma	ale	Female						
	n=9	958	n=800						
Years	obs. %	rel. %	obs. %	rel. %					
0	100.0	100.0	100.0	100.0					
1	82.1	84.5	78.9	80.8					
2	68.6	72.5	63.4	66.5					
3	60.1	65.1	53.3	57.1					
4	51.2	56.9	46.0	50.1					
5	43.5	49.5	38.4	42.8					
6	37.4	43.7	33.2	37.8					
7	34.7	41.4	26.7	30.9					
8	31.3	38.3	22.7	26.8					
9	28.0	35.0	19.6	23.5					
10	24.2	31.2	18.3	22.3					

Table 2b. Observed (obs.) and relative (rel.) survival of patients with immunoprolif. disease by gender for period 1988-2013 (N=1,758).

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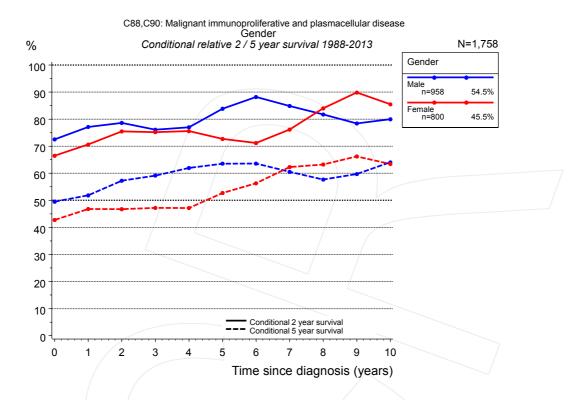


Figure 2c. Conditional relative 2 / 5-year survival of patients with immunoprolif. disease by gender. For 1,758 of 1,758 cases diagnosed between 1988 and 2013 valid data could be obtained for this item.

		G	Sendei	•		
		Male		F	emale	
		Cond. s	surv. %		Cond. s	surv. %
Years	n	2 yrs	5 yrs	n	2 yrs	5 yrs
0	958	72.5	49.5	800	66.5	42.8
1	735	77.1	51.8	591	70.6	46.8
2	572	78.6	57.3	441	75.5	46.7
3	455	76.1	59.2	343	75.2	47.2
4	338	77.0	62.0	270	75.6	47.2
5	251	83.9	63.6	201	72.7	52.7
6	195	88.2	63.6	149	71.2	56.3
7	168	84.9	60.5	111	76.1	62.3
8	143	81.7	57.7	86	84.0	63.3
9	112	78.4	59.7	66	89.8	66.2
10	89	80.0	64.0	56	85.5	63.4

Table 2d. Conditional relative 2 / 5-year survival of patients with immunoprolif. disease by gender for period 1988-2013 (N=1,758).

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 76.1% (n=455).

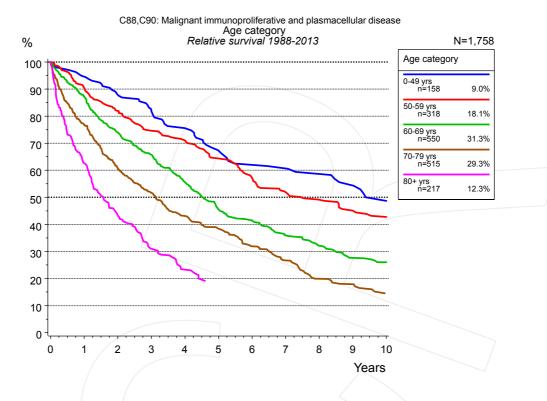


Figure 3a. Relative survival of patients with immunoprolif. disease by age category. Included in the evaluation are 1,758 cases diagnosed between 1988 and 2013.

Age category										
	0-49	yrs	50-59	50-59 yrs		60-69 yrs		70-79 yrs		yrs
	n=158 n=318 n=550		n=5	n=515		217				
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	94.8	94.6	90.1	90.4	86.0	87.2	74.2	76.8	57.4	62.6
2	87.9	87.9	81.1	81.9	71.8	74.0	56.3	60.6	36.1	43.3
3	81.9	81.9	73.0	74.6	62.9	65.7	46.2	51.7	23.2	31.0
4	74.7	75.6	69.2	71.0	52.2	55.6	36.7	43.1	15.6	23.3
5	66.4	67.3	61.9	64.3	41.9	45.6	31.1	38.4		
6	61.4	62.0	54.4	57.1	37.3	41.4	24.4	31.9		
7	60.3	60.7	49.2	51.9	31.7	35.9	19.3	26.7		
8	58.0	58.6	45.9	49.1	27.6	32.1	13.5	19.9		
9	54.0	54.4	42.2	45.1	23.1	27.6	11.6	17.9		
10	48.4	48.7	39.5	42.8	21.2	26.0				

Table 3b. Observed (obs.) and relative (rel.) survival of patients with immunoprolif. disease by age category for period 1988-2013 (N=1,758).

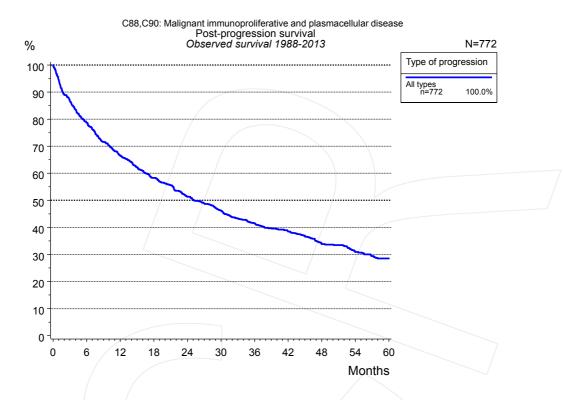


Figure 5a. Observed post-progression survival of 772 patients with immunoprolif. disease diagnosed between 1988 and 2013 (incl. M1). These 772 patients with documented progression events during their course of disease represent 43.9% of the totally 1,758 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=321, 18.3%).

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=772						
Months	%						
0	100.0						
12	66.6						
24	51.3						
36	41.4						
48	33.9						
60	28.6						

Table 5b. Observed post-progression survival of patients with immunoprolif. disease for period 1988-2013 (N=772).

Shortcuts

MCR Munich Cancer Registry, Germany (Tumorregister München)

NCI National Cancer Institute, USA

SEER Surveillance, Epidemiology, and End Results, USA UICC Union for International Cancer Control, Geneva

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

NA Not available

NOS Not otherwise specified

OS Observed/overall survival (Kaplan-Meier estimate)
RS Relative survival, compared to the general population,
ratio of observed to expected survival (Ederer II method),

reflecting excess mortality among cancer patients

AS Assembled survival chart (observed, expected, relative)

PPS Post-progression survival, survival since first relapse (Kaplan-Meier estimate)

Date of entry: Date of first locoregional recurrence, distant metastasis, unspecified

progression

Event: Death of all causes

CS Conditional survival, survival probability under the condition of surviving a given period of time

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