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

AML: Acute myelobl. leukemia

Year of diagnosis	1988-2013
Patients	2,709
Diseases	2,711
Cases evaluated	996
Creation date	05/13/2015
Export date	12/30/2014
Population	4.64 m



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C920_E.pdf

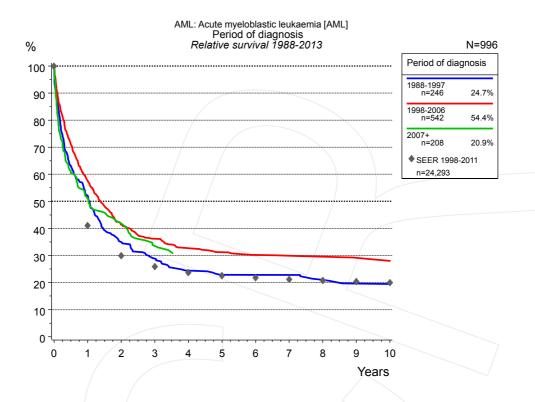


Figure 1a. Relative survival of patients with acute myelobl. leukemia by period of diagnosis. Included in the evaluation are 996 cases diagnosed between 1988 and 2013.

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						
198		1997	1998-2006		2007+	
n=246		n=542		n=2	208	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	51.1	52.1	56.6	57.6	50.2	51.2
2	34.2	34.9	40.0	41.4	40.3	41.9
3	27.9	28.8	34.7	36.2	32.2	33.5
4	23.2	24.4	31.1	32.7		
5	21.5	22.8	29.4	31.2		
6	21.5	22.8	28.1	30.2		
7	21.5	22.8	27.8	29.9		
8	19.3	21.0	26.9	29.5		
9	18.0	19.6	26.3	29.1		
10	18.0	19.4	25.6	28.0		

Table 1b. Observed (obs.) and relative (rel.) survival of patients with acute myelobl. leukemia by period of diagnosis for period 1988-2013 (N=996).

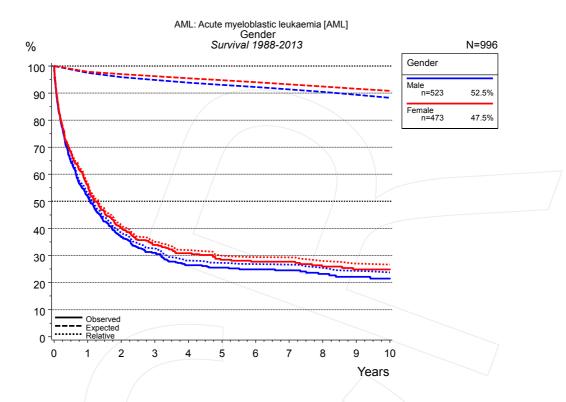


Figure 2a. Survival of patients with acute myelobl. leukemia by gender. Included in the evaluation are 996 cases diagnosed between 1988 and 2013.

Gender								
	Ma	ale	Female					
	n=5	523	n=473					
Years	obs. %	rel. %	obs. %	rel. %				
0	100.0	100.0	100.0	100.0				
1	51.9	53.2	56.1	57.1				
2	36.9	38.4	40.1	41.2				
3	31.0	32.5	33.9	35.1				
4	26.4	28.1	30.8	32.0				
5	25.6	27.2	28.4	29.9				
6	24.9	26.8	27.7	29.4				
7	24.5	26.6	27.7	29.3				
8	23.2	25.4	25.9	28.0				
9	22.1	24.3	24.8	27.0				
10	21.5	23.7	24.8	26.7				

Table 2b. Observed (obs.) and relative (rel.) survival of patients with acute myelobl. leukemia by gender for period 1988-2013 (N=996).

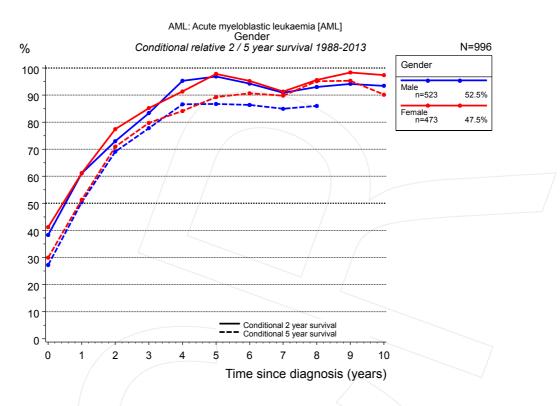


Figure 2c. Conditional relative 2 / 5-year survival of patients with acute myelobl. leukemia by gender. For 996 of 996 cases diagnosed between 1988 and 2013 valid data could be obtained for this item.

Gender									
		Male		Female					
		Cond. s	surv. %		Cond. s	surv. %			
Years	n 2 yrs 5 yrs			n	2 yrs	5 yrs			
0	523	38.4	27.2	473	41.2	29.9			
1	255	61.2	50.4	253	61.2	51.3			
2	168	73.0	69.1	167	77.4	71.0			
3	127	83.4	77.8	130	85.2	79.7			
4	98	95.3	86.6	103	91.3	84.1			
5	82	96.9	86.7	79	97.9	89.3			
6	70	94.2	86.4	73	95.2	90.7			
7	62	90.9	85.0	66	91.3	89.8			
8	46	93.0	86.0	55	95.6	95.2			
9	36	94.2		46	98.4	95.3			
10	30	93.4		40	97.4	90.2			

Table 2d. Conditional relative 2 / 5-year survival of patients with acute myelobl. leukemia by gender for period 1988-2013 (N=996).

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 83.4% (n=127).

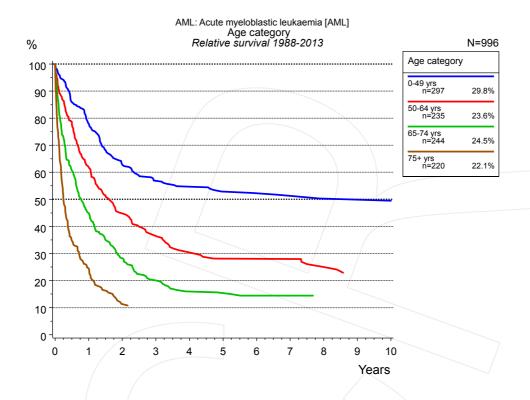


Figure 3a. Relative survival of patients with acute myelobl. leukemia by age category. Included in the evaluation are 996 cases diagnosed between 1988 and 2013.

Age category									
	0-49	yrs	50-64 yrs		65-74 yrs		75+ yrs		
	n=2	297	n=235		n=244		n=220		
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	78.2	77.9	61.4	61.9	44.2	44.9	23.3	24.5	
2	62.9	62.8	44.5	44.8	27.3	28.2	9.9	11.3	
3	56.7	56.8	35.9	36.5	19.2	20.0			
4	54.6	54.7	29.7	30.4	14.6	16.0			
5	52.5	52.9	27.0	28.1	14.0	15.4			
6	51.9	52.2	27.0	28.0	12.7	14.5			
7	51.3	51.3	27.0	27.9	12.7	14.4			
8	49.7	50.3	23.3	25.0	11.9	13.9			
9	49.7	49.9	21.1	22.6					
10	49.7	49.5	21.1	21.9					

Table 3b. Observed (obs.) and relative (rel.) survival of patients with acute myelobl. leukemia by age category for period 1988-2013 (N=996).

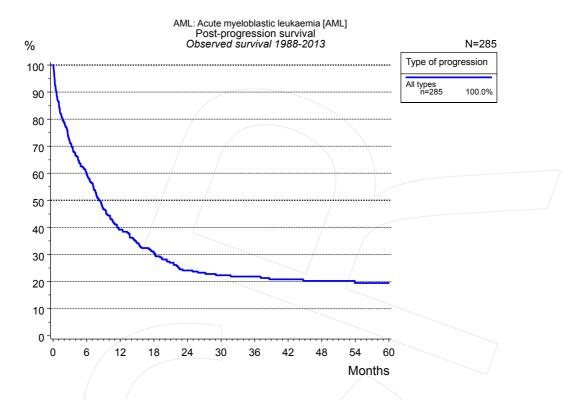


Figure 5a. Observed post-progression survival of 285 patients with acute myelobl. leukemia diagnosed between 1988 and 2013 (incl. M1). These 285 patients with documented progression events during their course of disease represent 28.6% of the totally 996 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=372, 37.3%).

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=285							
Months	%						
0	100.0						
12	39.2						
24	24.1						
36	21.8						
48	20.2						
60	19.4						

Table 5b. Observed post-progression survival of patients with acute myelobl. leukemia for period 1988-2013 (N=285).

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

Recommended Citation

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