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

ALL: Acute lymphobl. leukaemia (morph.)

Year of diagnosis	1988-2012
Patients	835
Diseases	835
Cases evaluated	474
Creation date	03/25/2014
Export date	02/12/2014
Population	4.5 m



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

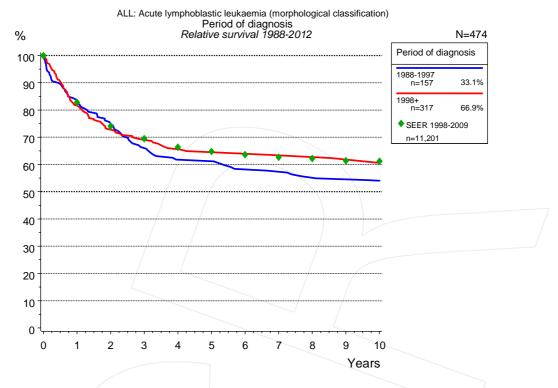


Figure 1a. Relative survival of patients with acute lymphobl. leukaemia (morph.)/by period of diagnosis. Included in the evaluation are 474 cases diagnosed between 1988 and 2012.

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 populationbased 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 dia	anosis		
		1988-		1998+ n=317		
		n=1	57			
	Years	obs. %	rel. %	obs. %	rel. %	
	0	100.0	100.0	100.0	100.0	
	1	83.4	83.3	81.2	81.6	
	2	75.0	74.9	72.5	72.8	
	3	65.9	66.0	68.5	69.0	
	4	61.2	61.7	65.5	65.6	
	5	61.2	61.1	64.3	64.5	
	6	57.8	58.2	63.6	63.9	
	7	57.1	57.3	62.7	63.3	
	8	55.0	55.1	62.7	62.7	
	9	54.3	54.5	61.2	61.8	
	10	53.6	54.0	61.2	60.5	

Table 1b. Observed (obs.) and relative (rel.) survival of patients with acute lymphobl. leukaemia (morph.) by period of diagnosis for period 1988-2012 (N=474).

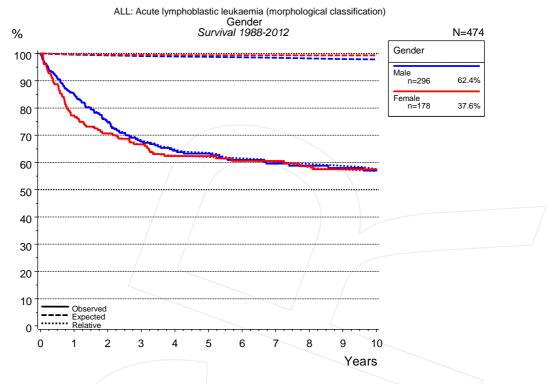


Figure 2a. Survival of patients with acute lymphobl. leukaemia (morph.) by gender. Included in the evaluation are 474 cases diagnosed between 1988 and 2012.

	Gender						
	Ma	ale	Female				
	n=2	296	n=178				
Years	obs. %	rel. %	obs. %	rel. %			
0	100.0	100.0	100.0	100.0			
1	84.9	85.3	77.2	77.0			
2	75.0	75.2	70.6	70.6			
3	67.7	68.1	66.7	66.6			
4	64.3	64.7	62.3	62.5			
5	63.2	63.5	62.3	62.0			
6	60.9	61.5	60.6	60.8			
7	59.5	60.2	60.6	60.1			
8	58.8	59.4	58.6	58.2			
9	57.9	58.7	57.5	57.4			
10	57.0	57.5	57.5	56.8			

Table 2b. Observed (obs.) and relative (rel.) survival of patients with acute lymphobl. leukaemia (morph.) by gender for period 1988-2012 (N=474).



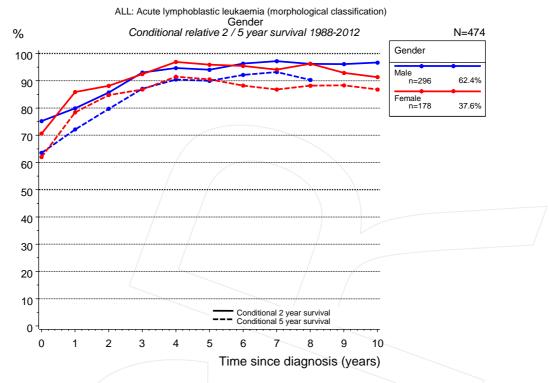


Figure 2c. Conditional relative 2 / 5-year survival of patients with acute lymphobl. leukaemia (morph.) by gender. For 474 of 474 cases diagnosed between 1988 and 2012 valid data could be obtained for this item.

		G	Gender	•			
		Male		F	emale		
		Cond. s	surv. %		Cond. s	surv. %	
Years	n	2 yrs	5 yrs	n	2 yrs	5 yrs	
0	296	75.2	63.5	178	70.6	62.0	
1	238	79.9	72.1	133	85.9	78.4	
2	180	85.7	79.7	111	88.1	84.8	
3	144	93.0	87.1	96	92.4	86.8	
4	127	94.6	90.5	81	96.9	91.5	
5	113	94.0	90.0	75	95.9	90.5	
6	95	96.3	92.1	66	95.4	88.2	
7	85	97.2	93.2	62	94.1	86.8	
8	75	96.2	90.3	55	96.2	88.2	
9	65	96.1		50	92.9	88.3	
10	58	96.6		46	91.3	86.8	

Table 2d. Conditional relative 2 / 5-year survival of patients with acute lymphobl. leukaemia (morph.) by gender for period 1988-2012 (N=474).

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 93.0% (n=144).

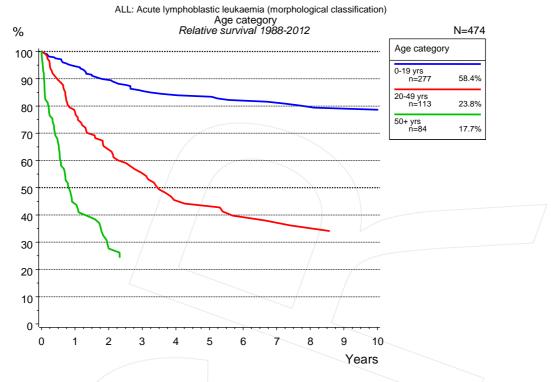


Figure 3a. Relative survival of patients with acute lymphobl. leukaemia (morph.) by age category. Included in the evaluation are 474 cases diagnosed between 1988 and 2012.

		Age	categ	ory		
	0-19	yrs	20-49	9 yrs	50+	yrs
	n=2	277	n=113		n=84	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	94.9	94.6	77.6	77.6	44.0	44.0
2	89.8	89.5	65.1	64.0	28.1	27.7
3	85.8	85.6	55.3	55.2		
4	84.4	84.0	45.2	45.2		
5	83.8	83.4	43.9	43.2		
6	82.1	81.9	39.4	39.2		
7	81.4	81.2	37.6	37.1		
8	80.0	79.6	35.7	35.1		
9	79.3	79.0	33.6	33.7		
10	79.3	78.6	33.6	32.9		

Table 3b. Observed (obs.) and relative (rel.) survival of patients with acute lymphobl. leukaemia (morph.) by age category for period 1988-2012 (N=474).



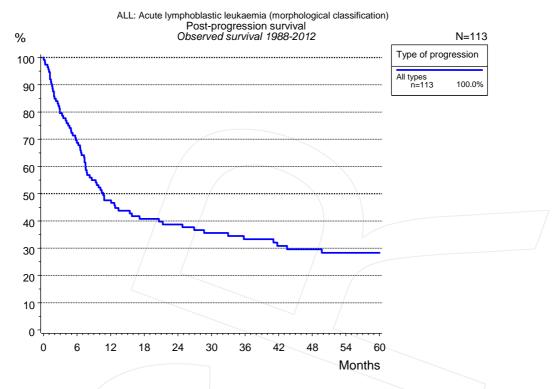


Figure 5a. Observed post-progression survival of 113 patients with acute lymphobl. leukaemia (morph.) diagnosed between 1988 and 2012 (incl. M1). These 113 patients with documented progression events during their course of disease represent 23.8% of the totally 474 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=59, 12.4%).

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=113		
Months	%		
0	100.0		
12	47.6		
24	38.7		
36	33.3		
48	29.6		
60	28.3		

Table 5b. Observed post-progression survival of patients with acute lymphobl. leukaemia (morph.) for period 1988-2012 (N=113).

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. Munich Cancer Registry, Germany (Tumorregister München) MCR Not available NA NCI National Cancer Institute, USA NOS Not otherwise specified Observed/overall survival (Kaplan-Meier estimate) OS 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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