

Munich Cancer Registry



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

Cancer statistics: Survival

C91: Lymphoid leukaemia

Year of diagnosis	1978-1987	1988-1997	1998-2011
Patients	343	699	3,173
Diseases	343	700	3,178
Creation date	04/01/2013		
Export date	01/03/2013		
Population	4.5 m		



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C91__E.pdf

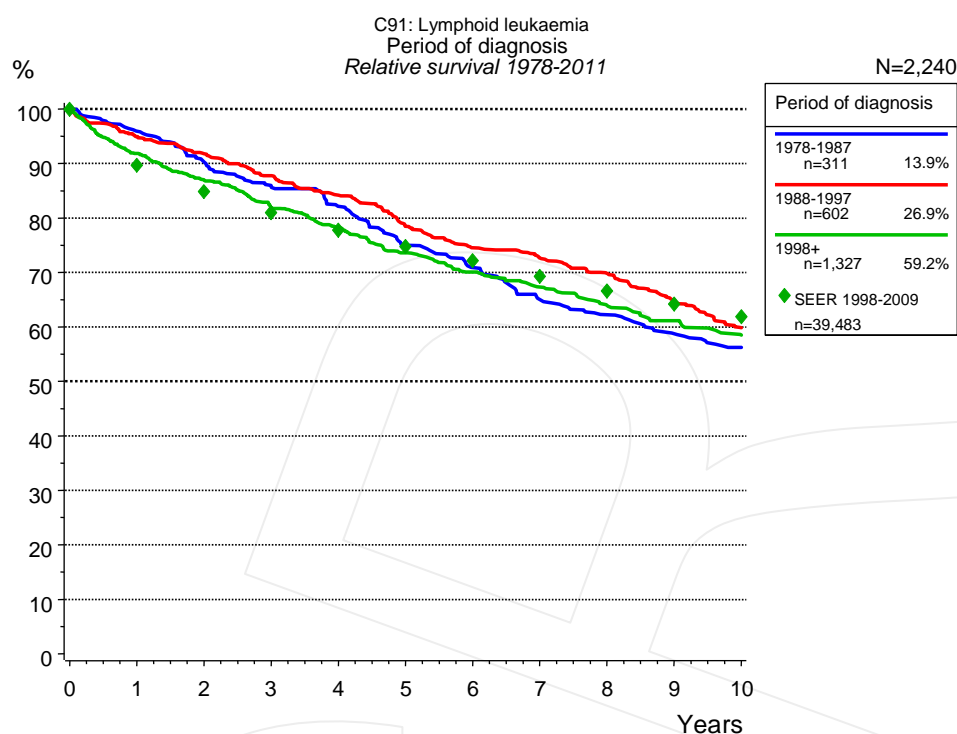


Figure 1a. Relative survival of patients with lymphoid leukaemia by period of diagnosis. Included in the evaluation are 2,240 cases diagnosed between 1978 and 2011.

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 1998, 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					
	1978-1987 n=311		1988-1997 n=602		1998+ n=1,327	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	94.2	95.9	93.0	94.9	89.7	91.9
2	87.1	90.3	88.2	91.8	83.0	86.9
3	81.0	85.8	82.6	87.8	76.5	81.8
4	75.8	82.1	77.6	84.2	71.8	78.3
5	68.0	75.0	70.6	78.5	66.2	73.6
6	62.8	70.9	65.7	74.5	61.8	70.1
7	56.6	65.0	62.8	72.6	58.3	67.3
8	53.0	62.2	59.2	69.8	54.4	63.9
9	49.0	58.8	53.9	64.8	51.4	61.1
10	46.1	56.3	48.8	59.9	48.0	58.5

Table 1b. Observed (obs.) and relative (rel.) survival of patients with lymphoid leukaemia by period of diagnosis for period 1978-2011 (N=2,240).

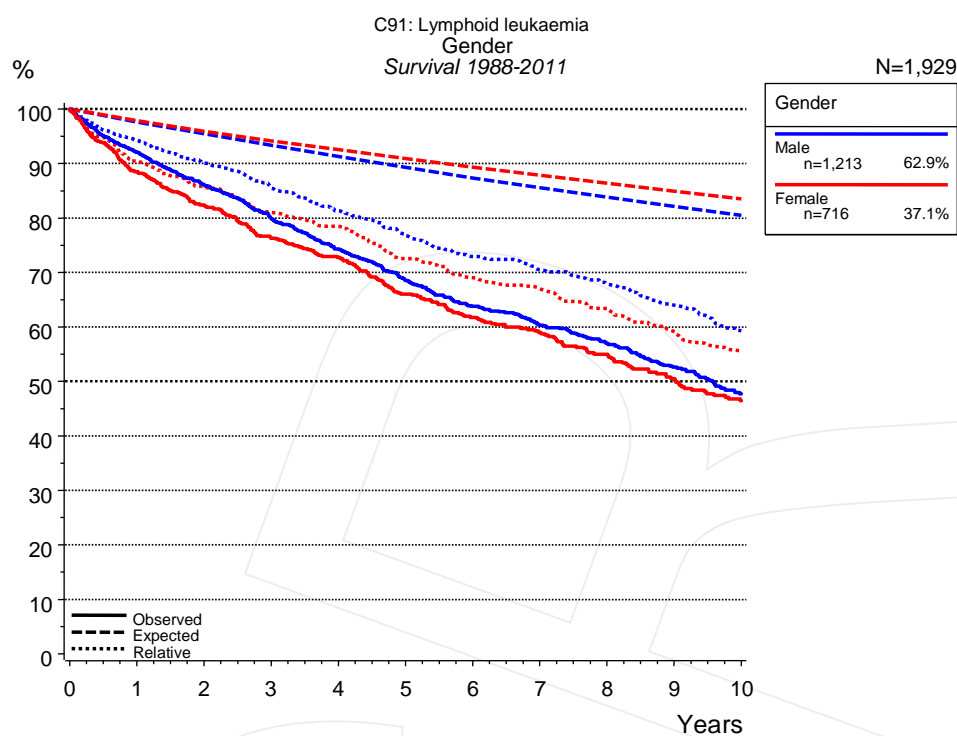


Figure 2a. Survival of patients with lymphoid leukaemia by gender. Included in the evaluation are 1,929 cases diagnosed between 1988 and 2011.

Years	Gender			
	Male n=1,213		Female n=716	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	92.0	94.3	88.5	90.4
2	86.1	90.2	82.2	85.8
3	79.9	85.5	76.3	81.0
4	74.3	81.3	72.7	78.4
5	68.5	76.8	66.0	72.5
6	63.7	73.0	61.7	69.0
7	60.3	70.5	59.0	67.0
8	57.0	67.9	55.0	63.4
9	52.6	64.0	50.5	59.1
10	47.8	59.3	46.5	55.6

Table 2b. Observed (obs.) and relative (rel.) survival of patients with lymphoid leukaemia by gender for period 1988-2011 (N=1,929).

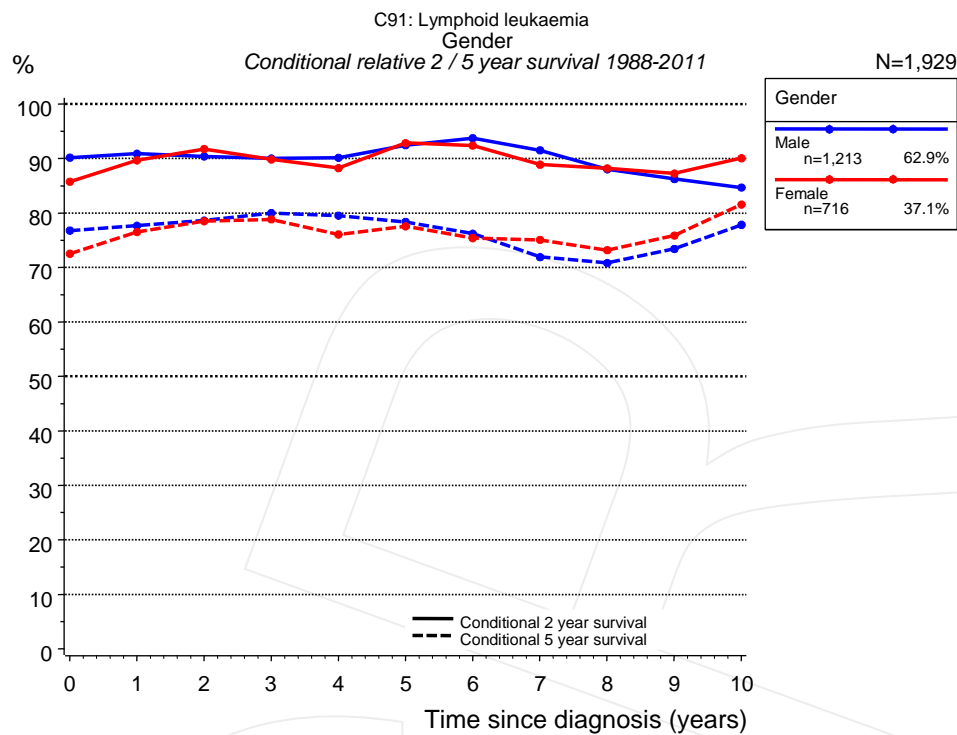


Figure 2c. Conditional relative 2 / 5-year survival of patients with lymphoid leukaemia by gender. For 1,929 of 1,929 cases diagnosed between 1988 and 2011 valid data could be obtained for this item.

Years	Gender					
	Male			Female		
	n	Cond. surv. % 2 yrs	5 yrs	n	Cond. surv. % 2 yrs	5 yrs
0	1,213	90.2	76.8	716	85.8	72.5
1	1,065	90.9	77.7	609	89.7	76.5
2	923	90.4	78.6	534	91.7	78.5
3	791	90.0	80.0	451	89.8	78.8
4	667	90.1	79.5	392	88.2	76.1
5	548	92.5	78.3	328	92.8	77.6
6	452	93.7	76.2	279	92.4	75.4
7	394	91.5	71.9	244	88.9	75.1
8	341	88.0	70.8	206	88.2	73.2
9	287	86.2	73.4	169	87.2	75.8
10	235	84.7	77.8	140	90.1	81.6

Table 2d. Conditional relative 2 / 5-year survival of patients with lymphoid leukaemia by gender for period 1988-2011 (N=1,929).

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 90.0% (n=791).

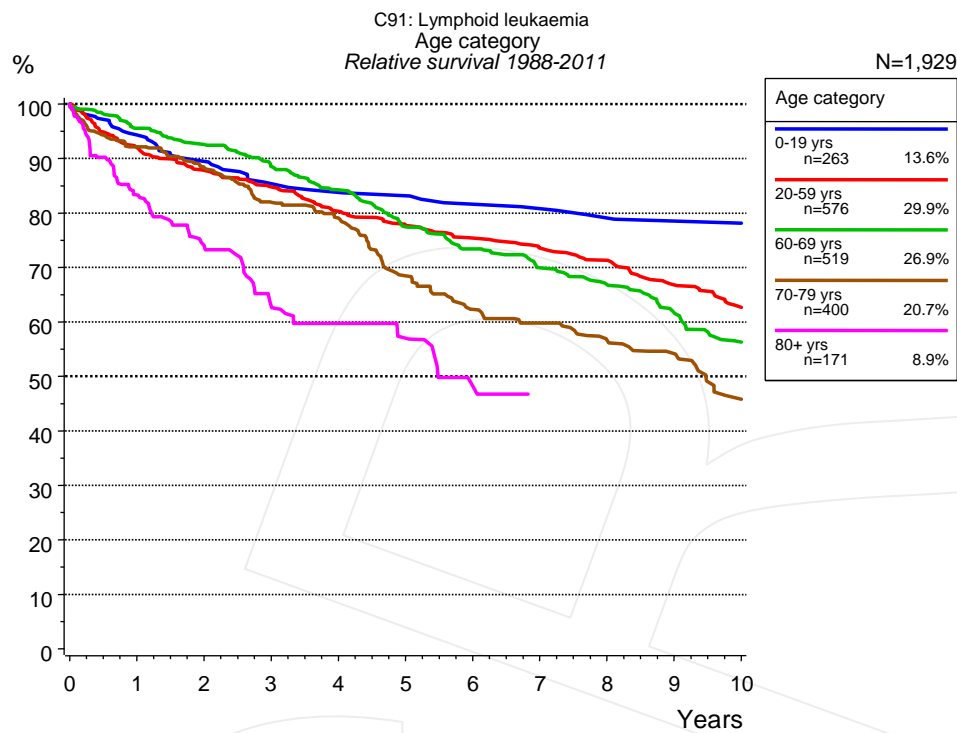


Figure 3a. Relative survival of patients with lymphoid leukaemia by age category. Included in the evaluation are 1,929 cases diagnosed between 1988 and 2011.

Years	Age category									
	0-19 yrs n=263		20-59 yrs n=576		60-69 yrs n=519		70-79 yrs n=400		80+ yrs n=171	
	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	94.6	94.3	91.6	92.0	94.1	95.5	89.1	92.2	74.9	83.3
2	89.7	89.5	87.0	87.8	89.8	92.6	81.7	88.3	58.9	73.9
3	85.6	85.3	83.5	84.8	84.2	88.5	72.6	82.0	45.0	62.9
4	84.1	83.7	78.6	80.3	78.5	84.2	66.8	79.1	39.6	59.7
5	83.6	83.1	75.4	77.7	70.9	77.5	54.6	68.4	31.7	57.0
6	81.8	81.6	72.6	75.4	65.7	73.4	47.1	62.3	22.8	48.2
7	81.1	80.8	70.2	73.6	61.0	69.9	42.7	59.8	20.3	46.7
8	79.5	79.1	67.7	71.3	56.9	66.8	37.8	56.6		
9	78.8	78.5	62.7	66.7	51.1	61.7	34.0	54.2		
10	78.8	78.1	58.1	62.6	45.2	56.3	27.1	45.8		

Table 3b. Observed (obs.) and relative (rel.) survival of patients with lymphoid leukaemia by age category for period 1988-2011 (N=1,929).

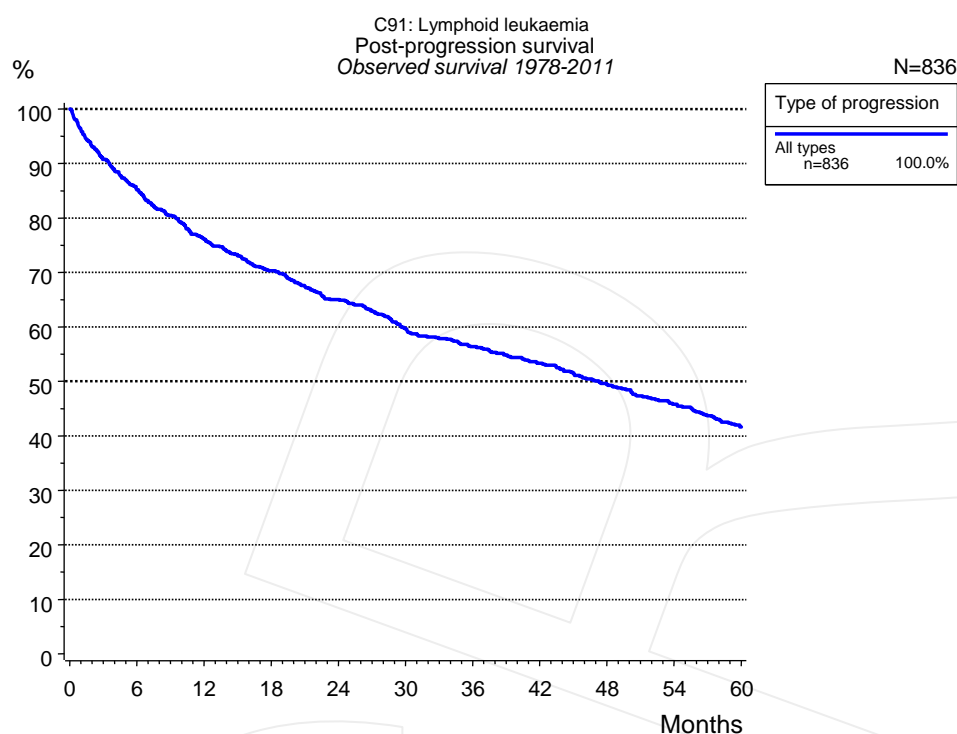


Figure 5a. Observed post-progression survival of 836 patients with lymphoid leukaemia diagnosed between 1978 and 2011 (incl. M1). These 836 patients with documented progression events during their course of disease represent 37.3% of the totally 2,240 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=178, 7.9%).

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 potentially considered in more than one subgroup.

Type of progression	
All types n=836	
Months	%
0	100.0
12	76.1
24	65.0
36	56.4
48	49.4
60	41.6

Table 5b. Observed post-progression survival of patients with lymphoid leukaemia for period 1978-2011 (N=836).

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

Munich Cancer Registry. Survival C91: Lymphoid leukaemia [Internet]. 2013 [updated 2013 Apr 1; cited 2013 May 1]. Available from: http://www.tumorregister-muenchen.de/en/facts/surv/surv_C91__E.pdf

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