

Munich Cancer Registry



- ▶ Incidence and Mortality
- ▶ Selection Matrix
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ICD-10 C00: Lip cancer

Survival

Year of diagnosis	1988-1997	1998-2019
Patients	88	419
Diseases	88	422
Cases evaluated	74	274
Creation date	01/27/2021	
Database export	01/07/2021	
Population	4.92 m	



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

https://www.tumorregister-muenchen.de/en/facts/surv/sC00__E-ICD-10-C00-Lip-cancer-survival.pdf

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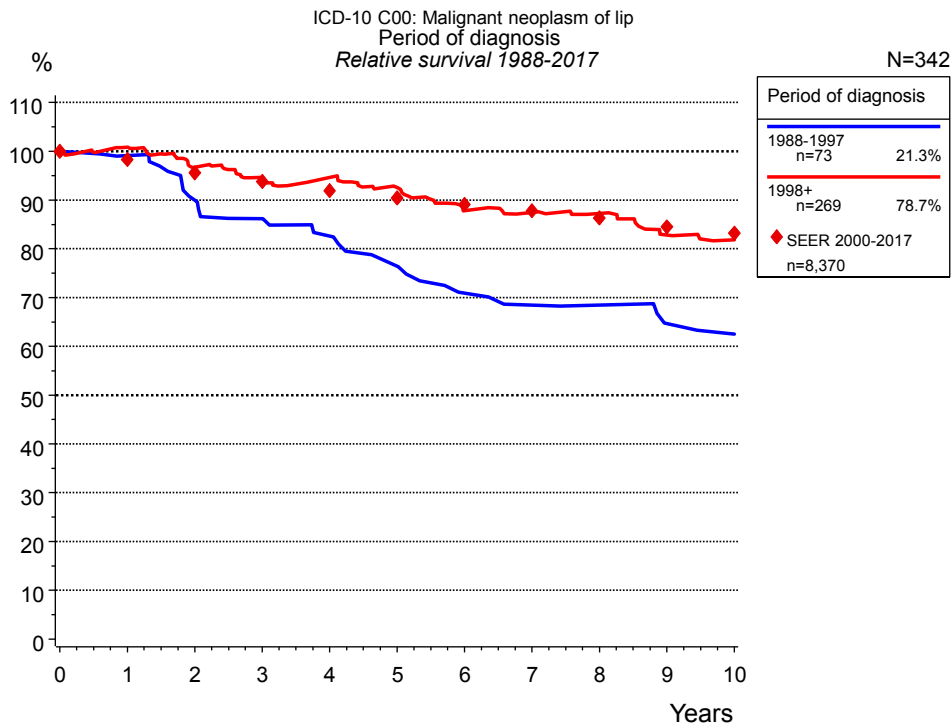


Figure 1a. Relative survival of patients with lip cancer by period of diagnosis. Included in the evaluation are 342 cases diagnosed between 1988 and 2017.

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 2000 to 2017, and are represented by colored 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			
	1988-1997		1998+	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	95.9	99.1	96.6	100.8
2	84.4	89.9	88.2	96.7
3	78.6	86.2	82.6	94.5
4	72.8	82.6	79.3	94.6
5	65.4	76.4	74.4	92.6
6	57.8	70.9	67.4	87.9
7	54.7	68.5	64.9	87.4
8	53.2	68.5	62.2	87.3
9	48.3	64.7	56.9	82.9
10	46.7	62.5	54.2	81.9
Median	8.9		10.9	

Table 1b. Observed (obs.) and relative (rel.) survival of patients with lip cancer by period of diagnosis for period 1988-2017 (N=342).

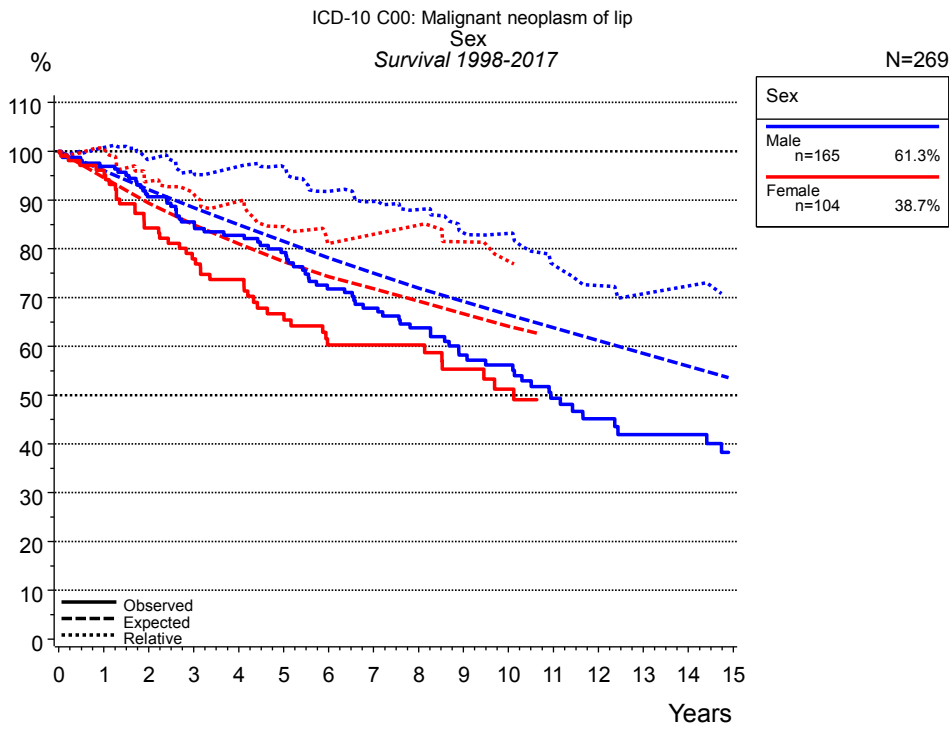


Figure 2a. Survival of patients with lip cancer by sex. Included in the evaluation are 269 cases diagnosed between 1998 and 2017.

Years	Sex			
	Male n=165		Female n=104	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	96.9	100.7	96.1	100.7
2	90.6	98.3	84.2	93.9
3	85.5	95.9	78.0	91.2
4	82.8	96.9	73.7	89.7
5	79.3	96.8	66.6	84.5
6	71.8	91.8	60.3	81.1
7	67.8	89.7	60.3	83.0
8	63.8	88.0	60.3	84.9
9	58.2	83.3	55.3	81.4
10	56.2	83.2	51.2	77.4
11	49.4	76.8	49.1	76.0
12	45.1	72.5		
13	41.9	70.8		
14	41.9	72.4		
15	38.3	70.8		
Median	10.9		10.1	

Table 2b. Observed (obs.) and relative (rel.) survival of patients with lip cancer by sex for period 1998-2017 (N=269).

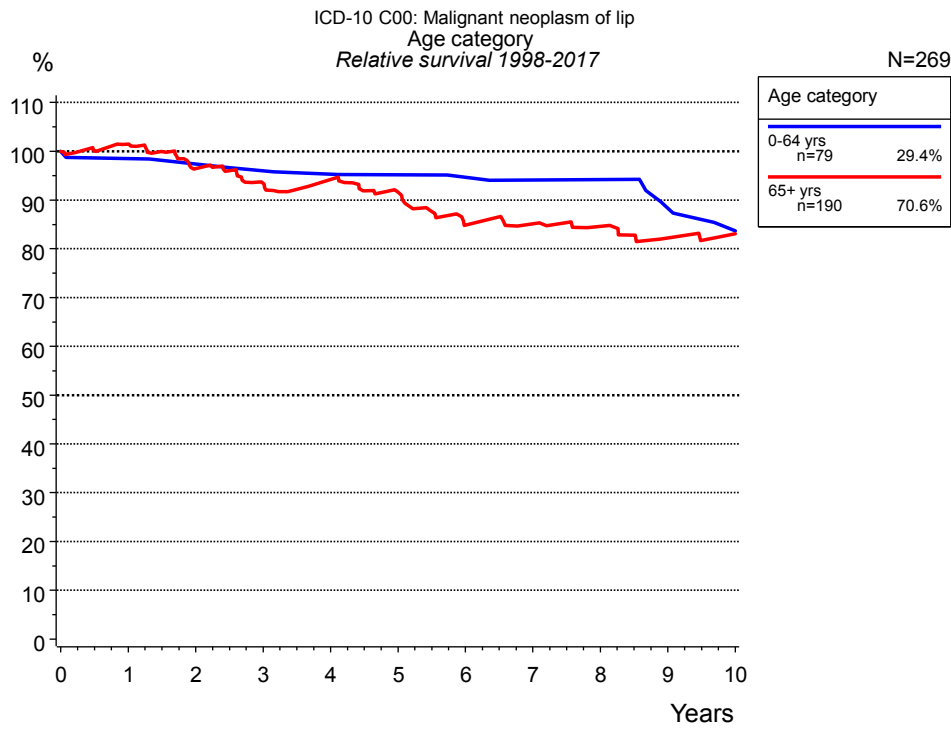


Figure 3a. Relative survival of patients with lip cancer by age category. Included in the evaluation are 269 cases diagnosed between 1998 and 2017.

Years	Age category			
	0-64 yrs n=79		65+ yrs n=190	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	98.7	98.5	95.8	101.5
2	96.0	97.4	85.0	96.4
3	94.7	96.0	77.6	93.4
4	93.3	95.3	73.5	94.2
5	91.8	95.2	67.2	91.6
6	90.3	94.7	57.7	84.8
7	88.6	94.1	54.9	85.1
8	88.6	94.2	51.2	84.6
9	81.8	88.3	46.5	82.2
10	77.1	83.7	44.6	83.1
Median			8.3	

Table 3b. Observed (obs.) and relative (rel.) survival of patients with lip cancer by age category for period 1998-2017 (N=269).

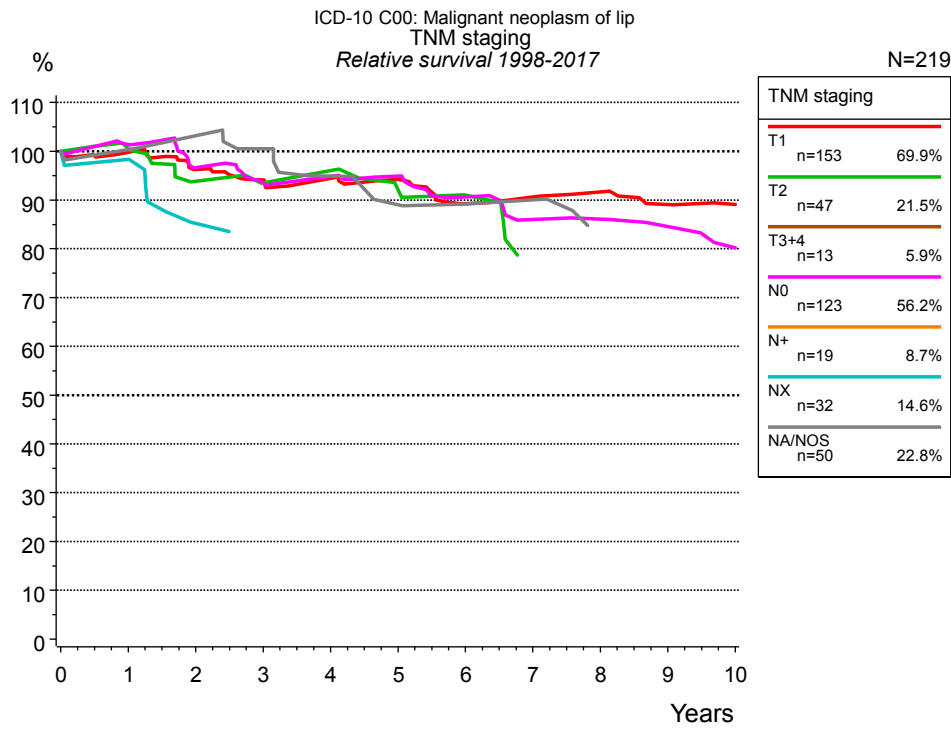


Figure 4a. Relative survival of patients with lip cancer by TNM staging. For 219 of 269 cases diagnosed between 1998 and 2017 valid data could be obtained for this item. The accumulated percentage exceeds the 100 % value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 50 patients with missing values regarding TNM staging (18.6 % of 269 patients, the percent values of all other categories are related to n=219). Subgroups with sample size <20 are omitted from the chart.

Years	TNM staging									
	T1 n=153		T2 n=47		N0 n=123		NX n=32		NA/NOS n=50	
	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	96.0	99.8	95.7	100.6	97.5	101.4	96.9	98.4	98.0	100.3
2	88.6	96.3	82.5	93.9	88.2	96.7	77.9	85.2	95.9	103.2
3	83.7	94.1	77.8	93.5	82.1	93.5	74.3	84.6	89.3	100.5
4	80.8	94.5	77.8	96.1	81.2	94.8	74.3	86.7	80.4	94.9
5	77.7	94.2	70.1	92.1	77.3	94.9			73.1	89.1
6	70.3	89.3	64.7	91.0	70.8	90.6			68.0	89.2
7	69.4	90.6	53.9	78.8	64.9	86.0			68.0	90.0
8	67.5	91.7			63.6	86.1			59.5	83.7
9	63.3	89.1			60.7	84.6				
10	60.9	89.1			55.9	80.2				
Median	13.2				10.5					

Table 4b. Observed (obs.) and relative (rel.) survival of patients with lip cancer by TNM staging for period 1998-2017 (N=219).

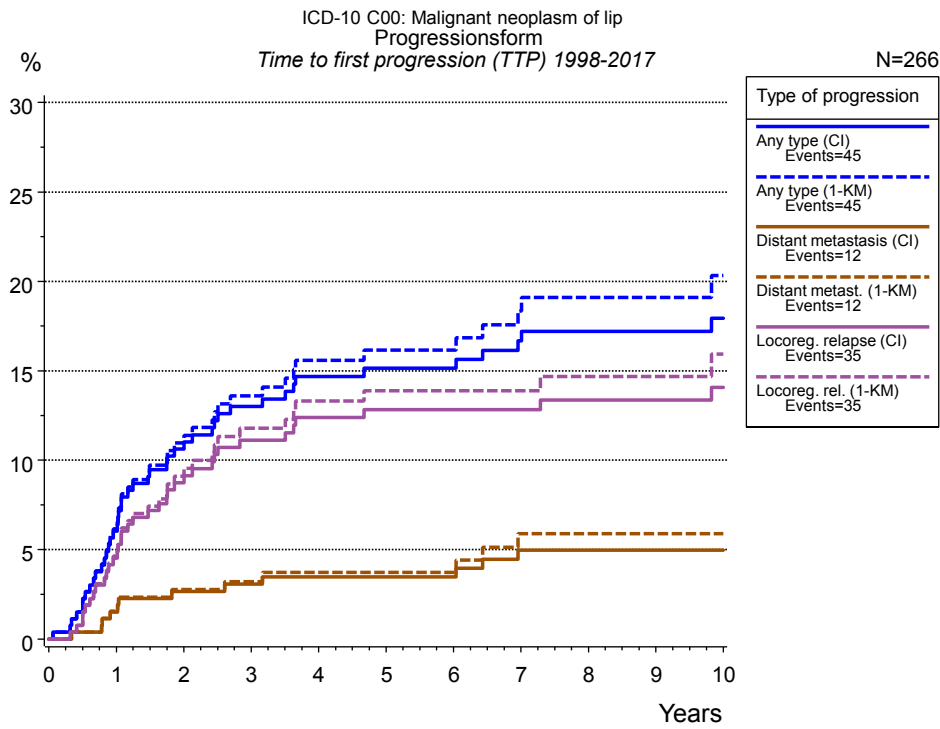


Figure 5a. Time to first progression of 266 patients with lip cancer diagnosed between 1998 and 2017 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

	Type of progression					
	Any type (CI)	Any type (1-KM)	Distant metastasis (CI)	Distant metast. (1-KM)	Locoreg. relapse (CI)	Locoreg. rel. (1-KM)
N	266	266	266	266	266	266
Events	44	44	12	12	35	35
compet.	77		92		83	
Years	%	%	%	%	%	%
0	0.0	0.0	0.0	0.0	0.0	0.0
1	6.0	6.2	1.5	1.6	4.5	4.6
2	10.6	11.0	2.7	2.8	8.7	9.1
3	13.0	13.6	3.1	3.2	11.1	11.8
4	14.7	15.6	3.5	3.7	12.4	13.3
5	15.1	16.2	3.5	3.7	12.8	13.9
6	15.1	16.2	3.5	3.7	12.8	13.9
7	16.7	18.3	5.0	5.9	12.8	13.9
8	17.2	19.1	5.0	5.9	13.4	14.7
9	17.2	19.1	5.0	5.9	13.4	14.7
10	17.9	20.3	5.0	5.9	14.1	15.9

Table 5b. Time to first progression of patients with lip cancer for period 1998-2017 (N=266), also showing the total of progression events (Events) and of deaths as competing risk (compet.).

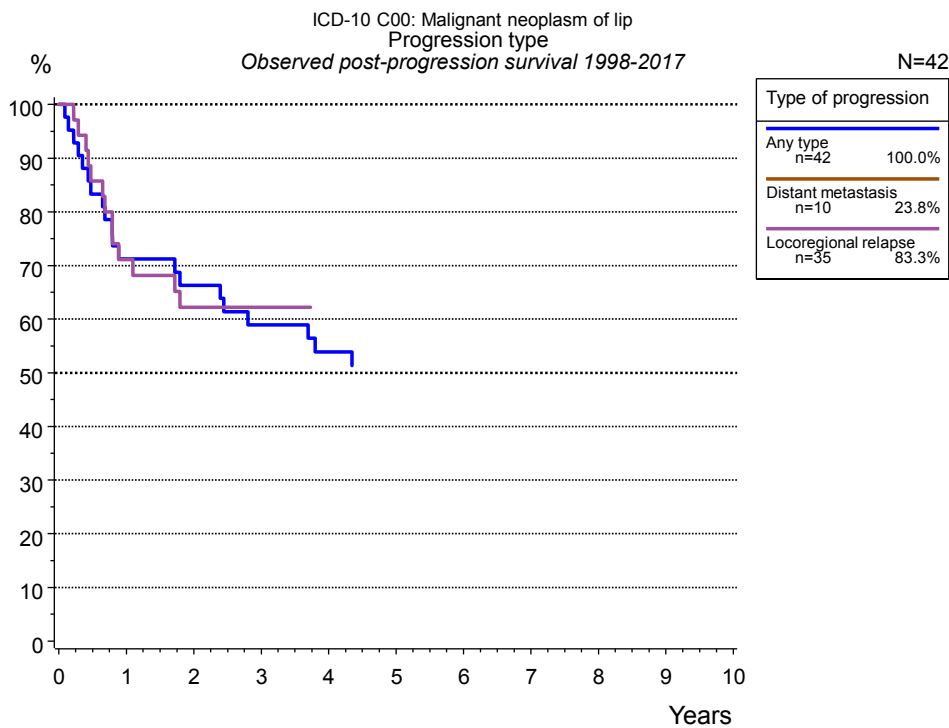


Figure 5c. Observed post-progression survival of 42 patients with lip cancer diagnosed between 1998 and 2017. These 42 patients with documented progression events during their course of disease represent 15.8 % of the totally 266 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=3, 1.1 %). Multiple progression types on different sites are included in the evaluation even when not occurring synchronously. Subgroups with sample size <20 are omitted from the chart.

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 “Any type” 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.

Years	Type of progression	
	Any type n=42 %	Locoregional relapse n=35 %
0	100.0	100.0
1	71.2	71.1
2	66.3	62.2
3	58.9	62.2
4	53.9	

Table 5d. Observed post-progression survival of patients with lip cancer for period 1998-2017 (N=42).

Shortcuts

MCR Munich Cancer Registry, Germany

NCI National Cancer Institute, USA

SEER Surveillance, Epidemiology, and End Results, USA

UICC Union for International Cancer Control, Geneva

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

NA Not available

NOS Not otherwise specified

OS Overall/Observed survival Overall/Observed survival (Kaplan-Meier estimate)
Date of entry: diagnosis
Event: death from any cause

RS Relative survival Survival compared to “general population”,
ratio of observed to expected survival (Ederer II method),
reflecting cancer specific survival

AS Assembled survival Assembled chart of
observed, expected, relative survival

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

TTP Time to progression Time to first progression / relapse
Date of entry: diagnosis
Event: (progression / relapse): first local-, lymph node recurrence,
distant metastasis or unspecified progression

1-KM 1 minus Kaplan-Meier estimator
 (“inverse” Kaplan-Meier estimator)

CI Cumulative incidence
Death as competing risk (according to Kalbfleisch und Prentice)

PPS Post-progression survival Survival since first progression / relapse (Kaplan-Meier estimate)
Date of entry (progression / relapse): first local-, lymph node
recurrence, distant metastasis or unspecified progression
Event: death from any cause

Recommended Citation

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