

Munich Cancer Registry



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ICD-10 C00-C14: HN cancer

Survival

Year of diagnosis	1988-1997	1998-2016
Patients	2,514	9,808
Diseases	2,571	10,156
Cases evaluated	2,284	7,733
Creation date	08/22/2018	
Export date	08/09/2018	
Population	4.81 m	



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

<https://www.tumorregister-muenchen.de/en/facts/surv/sC0014E-ICD-10-C00-C14-HN-cancer-survival.pdf>

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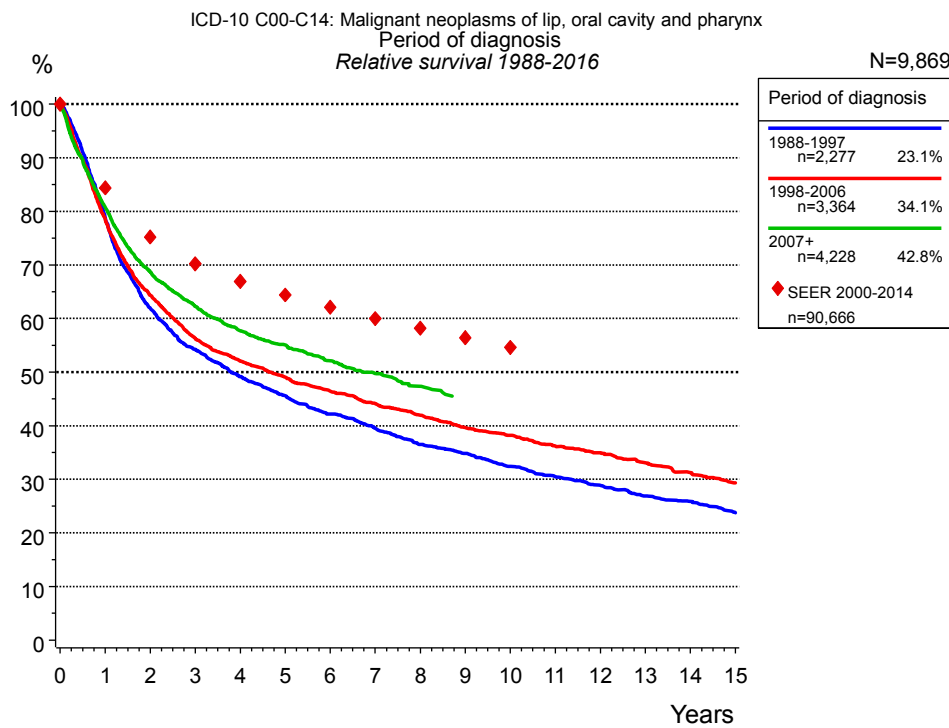


Figure 1a. Relative survival of patients with HN cancer by period of diagnosis. Included in the evaluation are 9,869 cases diagnosed between 1988 and 2016.

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 2014, 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 n=2,277		1998-2006 n=3,364		2007+ n=4,228	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	77.4	78.8	77.1	78.4	79.3	80.8
2	59.9	61.9	62.2	64.3	66.3	68.7
3	51.5	54.2	53.5	56.3	59.0	62.3
4	45.9	49.2	48.7	52.0	53.7	57.7
5	41.8	45.6	45.1	49.0	50.3	55.0
6	38.1	42.2	42.0	46.5	46.7	52.1
7	35.0	39.5	39.1	44.1	43.7	49.7
8	31.8	36.5	36.6	42.0	40.9	47.3
9	29.8	34.8	34.0	39.6		
10	27.3	32.4	32.1	38.2		
11	25.2	30.5	29.8	36.2		
12	23.4	28.9	28.2	35.0		
13	21.4	26.9	26.1	33.0		
14	20.2	25.8	24.1	31.3		
15	18.2	23.8	22.0	29.3		

Table 1b. Observed (obs.) and relative (rel.) survival of patients with HN cancer by period of diagnosis for period 1988-2016 (N=9,869).

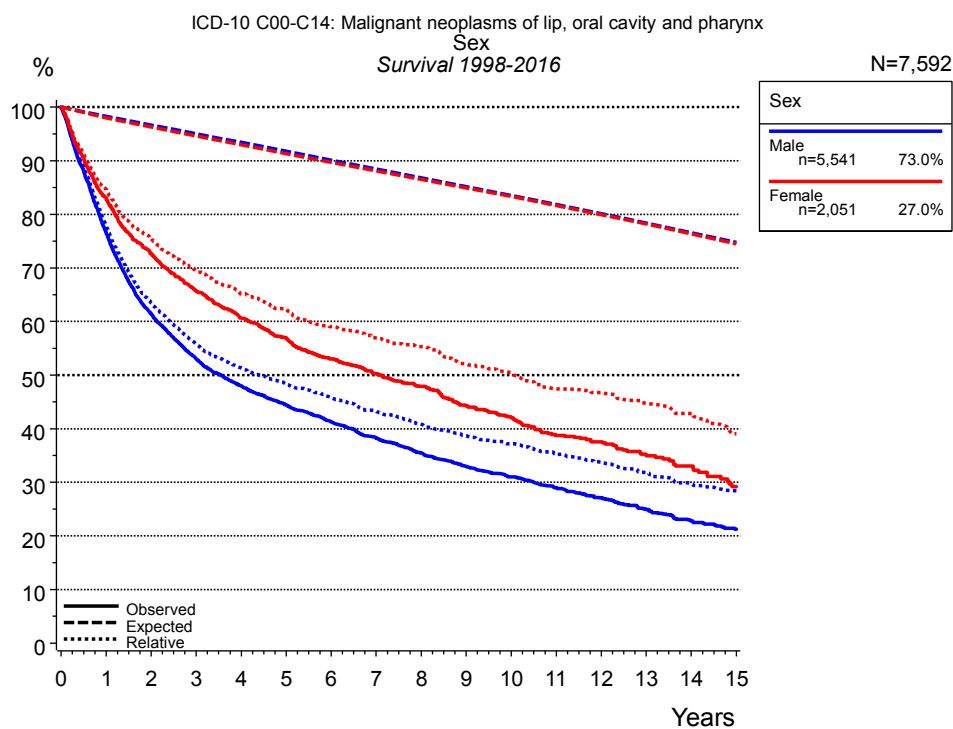


Figure 2a. Survival of patients with HN cancer by sex. Included in the evaluation are 7,592 cases diagnosed between 1998 and 2016.

Years	Sex			
	Male n=5,541		Female n=2,051	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	76.6	77.9	82.9	84.6
2	61.4	63.5	72.7	75.5
3	53.0	55.8	65.7	69.4
4	48.0	51.3	60.6	65.2
5	44.4	48.4	56.9	62.3
6	41.3	45.8	53.0	59.1
7	38.3	43.2	50.2	57.0
8	35.5	40.8	47.9	55.3
9	33.0	38.7	44.3	52.1
10	31.1	37.2	42.1	50.5
11	29.0	35.4	38.8	47.4
12	27.1	33.8	37.6	46.8
13	24.9	31.8	35.0	44.7
14	22.8	29.7	33.0	42.8
15	21.3	28.4	29.2	39.1

Table 2b. Observed (obs.) and relative (rel.) survival of patients with HN cancer by sex for period 1998-2016 (N=7,592).

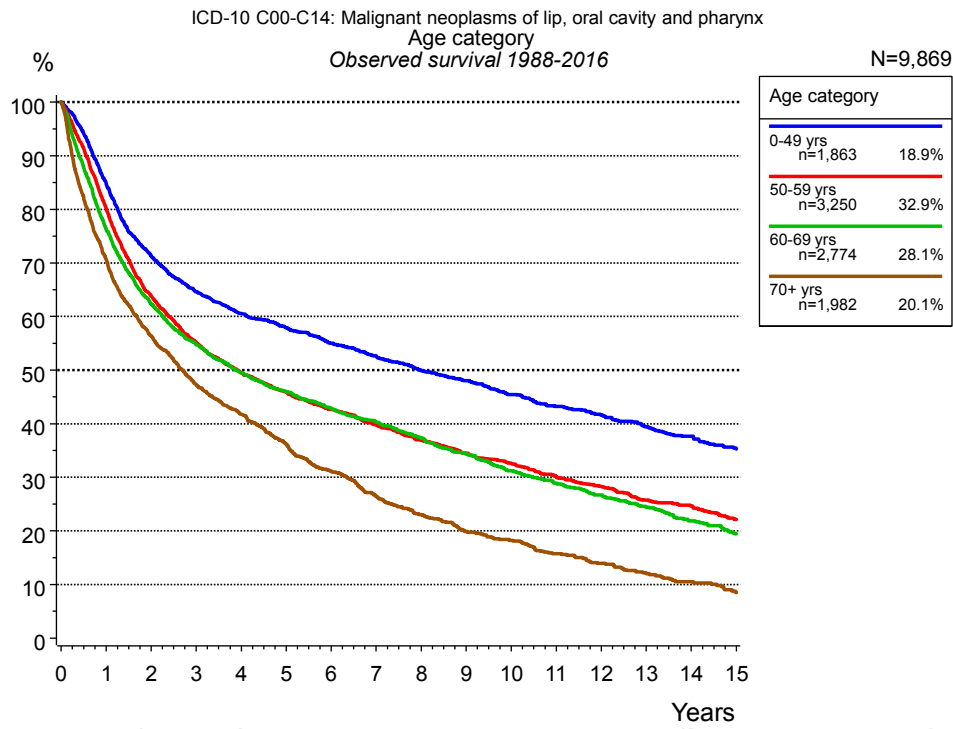


Figure 3a. Observed survival of patients with HN cancer by age category. Included in the evaluation are 9,869 cases diagnosed between 1988 and 2016.

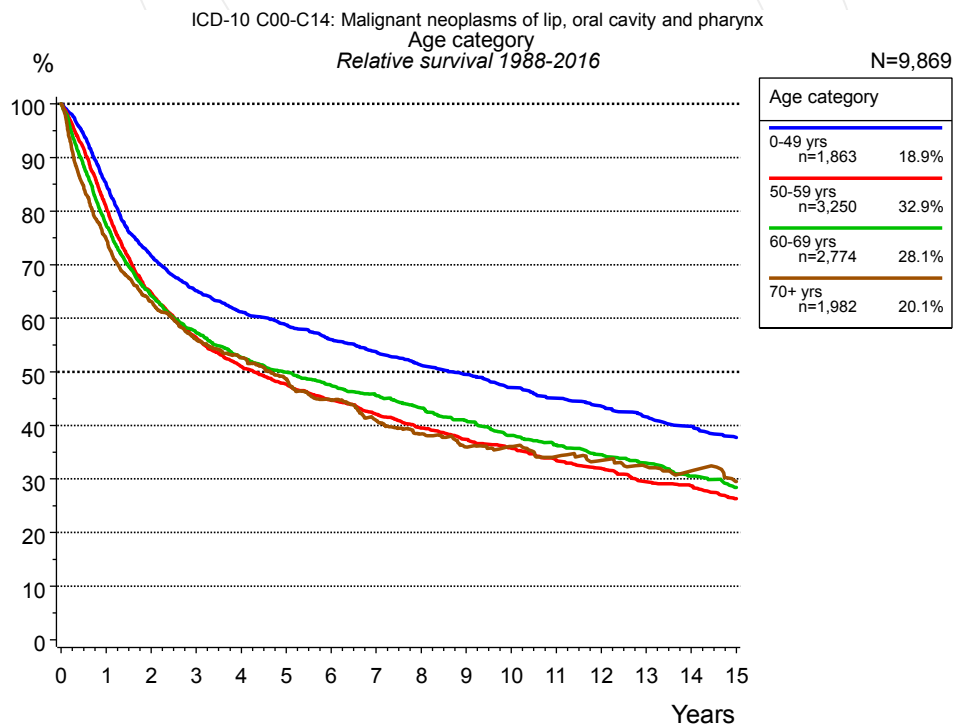


Figure 3b. Relative survival of patients with HN cancer by age category. Included in the evaluation are 9,869 cases diagnosed between 1988 and 2016.

Years	Age category							
	0-49 yrs n=1,863		50-59 yrs n=3,250		60-69 yrs n=2,774		70+ yrs n=1,982	
	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	84.8	85.0	80.2	80.8	76.4	77.5	70.7	74.9
2	71.3	71.7	63.9	64.7	62.4	64.3	56.4	63.1
3	64.7	65.2	55.2	56.4	54.7	57.3	47.3	56.1
4	60.5	61.2	49.5	51.0	49.5	52.7	41.8	52.6
5	57.9	58.7	45.9	47.7	46.0	50.0	36.3	48.7
6	55.0	56.0	42.7	44.8	42.9	47.5	31.1	44.8
7	52.7	53.8	39.7	42.1	40.3	45.6	26.4	40.9
8	49.9	51.2	36.8	39.5	37.3	43.3	23.0	38.4
9	48.0	49.5	34.5	37.4	34.4	40.9	19.9	36.0
10	45.5	47.1	32.6	35.8	31.2	38.1	18.3	36.0
11	43.2	45.1	30.2	33.6	28.9	36.4	15.8	34.2
12	41.7	43.6	28.3	32.0	26.7	34.6	13.9	33.4
13	39.5	41.6	25.8	29.5	24.4	33.0	12.0	32.3
14	37.7	39.9	24.6	28.8	21.8	30.6	10.6	31.5
15	35.3	37.7	22.2	26.4	19.4	28.4	8.5	29.5

Table 3c. Observed (obs.) and relative (rel.) survival of patients with HN cancer by age category for period 1988-2016 (N=9,869).

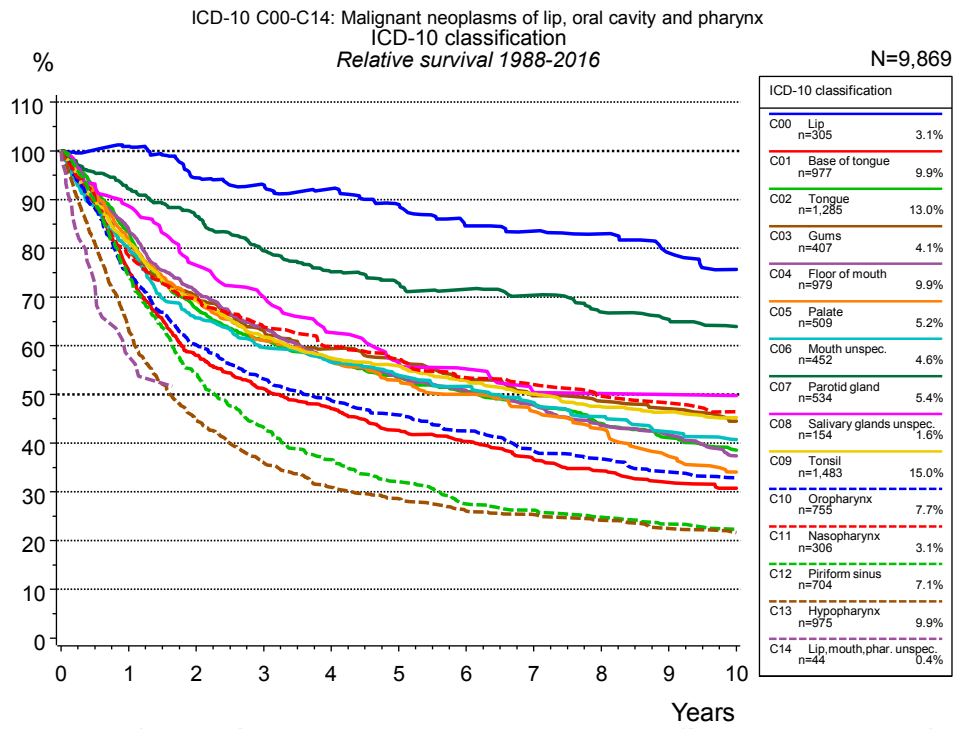


Figure 4a. Relative survival of patients with HN cancer by ICD-10 classification. Included in the evaluation are 9,869 cases diagnosed between 1988 and 2016.

Years	ICD-10 classification															
	C00 Lip n=305		C01 Base of tongue n=977		C02 Tongue n=1,285		C03 Gums n=407		C04 Floor of mouth n=979		C05 Palate n=509		C06 Mouth unspec. n=452			
	obs. %	rel. %	obs. %	rel. %	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	100.0	100.0	100.0	100.0	100.0	
1	97.0	101.0	74.2	75.3	81.9	83.3	77.9	80.0	82.7	83.9	80.8	81.6	77.9	79.8		
2	86.8	94.5	56.4	58.0	65.5	67.7	66.8	70.2	69.4	71.1	67.8	69.7	63.0	65.7		
3	82.2	93.0	48.9	51.1	58.1	61.1	58.8	63.1	61.3	63.6	58.6	61.1	56.1	59.6		
4	78.5	92.2	44.3	47.1	53.3	57.0	53.9	59.4	54.2	57.0	54.0	56.9	52.2	56.6		
5	72.9	89.0	39.5	42.6	49.1	53.4	50.6	57.0	50.6	53.7	49.6	52.9	48.7	53.9		
6	66.4	84.6	36.8	40.4	45.7	50.6	45.8	53.0	47.1	50.8	46.3	50.1	45.9	51.7		
7	63.6	83.5	32.7	36.7	42.7	48.0	41.9	49.7	43.9	47.9	42.4	46.5	42.0	48.3		
8	61.0	83.0	30.2	34.3	38.4	44.0	40.2	48.6	39.3	43.6	38.6	42.9	38.7	45.5		
9	56.1	79.1	27.5	32.0	35.3	41.1	38.0	47.1	37.2	41.8	33.1	37.3	35.3	42.4		
10	52.4	75.7	26.1	30.7	32.5	38.6	35.1	44.5	32.8	37.4	29.6	34.1	33.0	40.7		

cont'd	ICD-10 classification													
	C07 Parotid gland n=534		C08 Salivary glands unspec. n=154		C09 Tonsil n=1,483		C10 Oropharynx n=755		C11 Nasopharynx n=306		C12 Piriform sinus n=704		C13 Hypopharynx n=975	
	obs. %	rel. %	obs. %	rel. %	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	100.0	100.0	100.0	100.0
1	89.6	92.2	86.5	88.7	79.9	81.2	74.1	75.0	77.8	78.6	73.5	74.4	62.3	63.3
2	81.9	86.6	72.9	76.5	67.1	69.3	58.7	60.1	68.1	69.6	52.8	54.2	43.5	44.7
3	73.2	79.5	65.9	70.0	58.9	61.8	51.1	53.2	61.6	63.8	41.5	43.2	34.6	36.1
4	67.5	75.2	57.4	62.7	54.1	57.5	46.3	48.7	57.1	59.8	34.7	36.6	29.2	30.9
5	64.1	72.8	50.6	56.4	51.6	55.8	42.9	45.8	54.0	57.2	29.8	32.1	26.7	28.6
6	61.7	71.6	48.6	55.2	48.1	52.8	39.2	42.5	49.8	53.4	25.2	27.5	24.0	26.1
7	59.3	70.3	43.2	50.4	44.8	50.1	34.8	38.4	47.7	52.0	23.8	26.3	22.9	25.4
8	54.9	66.9	43.2	50.2	41.8	47.5	33.0	36.8	44.8	49.7	22.1	24.8	21.6	24.2
9	52.8	65.4	41.6	50.0	40.2	46.4	30.1	34.1	42.8	48.3	20.5	23.4	20.0	22.5
10	50.4	63.9	41.6	49.8	38.5	45.2	28.5	32.9	40.6	46.5	19.2	22.3	18.7	21.6

ICD-10 classification		
C14		
<i>cont'd</i> Lip,mouth,pha r. unspec. n=44		
Years	obs. %	rel. %
0	100.0	100.0
1	57.6	57.8

Table 4b. Observed (obs.) and relative (rel.) survival of patients with HN cancer by ICD-10 classification for period 1988-2016 (N=9,869).

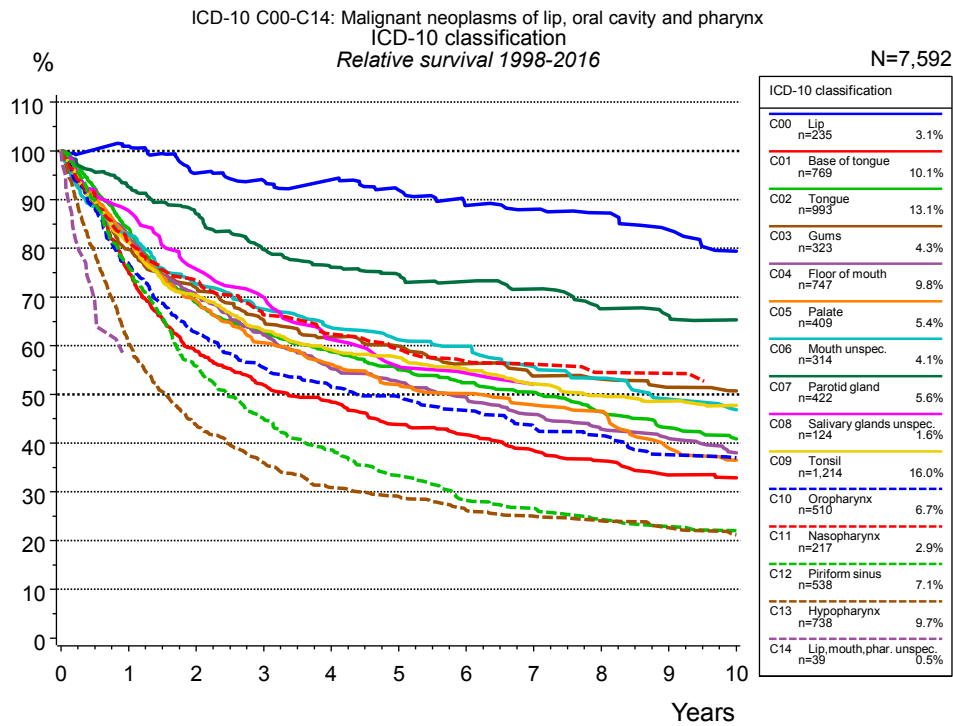


Figure 4c. Relative survival of patients with HN cancer by ICD-10 classification. Included in the evaluation are 7,592 cases diagnosed between 1998 and 2016.

Years	ICD-10 classification															
	C00 Lip n=235		C01 Base of tongue n=769		C02 Tongue n=993		C03 Gums n=323		C04 Floor of mouth n=747		C05 Palate n=409		C06 Mouth unspec. n=314			
	obs. %	rel. %	obs. %	rel. %	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	100.0	100.0	100.0	100.0		
1	97.0	101.0	73.9	75.0	82.7	84.1	77.8	79.8	81.6	82.7	81.0	81.8	80.5	82.7		
2	87.3	95.4	57.1	58.9	66.8	68.9	68.4	71.9	68.7	70.4	67.4	69.2	69.5	72.6		
3	82.6	93.8	49.6	51.9	59.7	62.7	60.9	65.3	60.0	62.2	58.1	60.6	63.3	67.5		
4	79.7	94.1	45.5	48.4	55.1	58.7	56.1	61.7	52.7	55.3	53.3	56.2	58.6	63.7		
5	74.9	92.0	40.4	43.8	50.8	55.1	53.4	59.9	49.7	52.6	48.8	52.0	54.9	61.2		
6	68.9	88.8	37.9	41.7	47.5	52.4	48.9	56.3	45.9	49.3	46.4	50.2	52.8	59.9		
7	66.3	88.0	34.3	38.5	45.1	50.4	45.5	53.8	42.1	45.9	43.4	47.8	48.2	55.7		
8	63.3	87.3	31.8	36.4	40.9	46.5	44.3	53.2	38.7	42.9	42.0	46.5	44.9	53.3		
9	58.7	83.8	28.6	33.5	37.4	43.2	41.7	51.5	36.6	41.0	34.7	39.0	40.2	49.0		
10	53.9	79.4	27.8	32.9	34.6	40.9	40.2	50.7	33.4	38.1	31.6	36.5	37.3	46.8		

cont'd	ICD-10 classification													
	C07 Parotid gland n=422		C08 Salivary glands unspec. n=124		C09 Tonsil n=1,214		C10 Oropharynx n=510		C11 Nasopharynx n=217		C12 Piriform sinus n=538		C13 Hypopharynx n=738	
	obs. %	rel. %	obs. %	rel. %	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	100.0	100.0	100.0	100.0
1	90.0	92.6	85.9	87.7	80.0	81.2	76.0	76.9	80.4	81.2	75.3	76.2	59.5	60.4
2	82.5	87.1	72.6	75.7	68.2	70.3	61.1	62.7	72.0	73.4	54.4	55.8	42.5	43.7
3	73.4	79.7	66.7	69.9	60.3	63.1	53.4	55.5	64.1	66.3	43.2	45.0	34.6	36.0
4	68.4	76.1	56.9	61.3	55.8	59.2	49.1	51.5	59.8	62.4	36.5	38.6	29.2	30.9
5	65.7	74.6	51.7	55.7	53.3	57.6	46.5	49.6	56.4	59.3	30.9	33.4	27.0	29.0
6	63.1	73.2	48.9	54.4	50.3	55.2	43.2	46.7	53.3	56.8	25.8	28.3	24.2	26.2
7	60.5	71.7	45.8	52.1	46.8	52.1	39.3	43.3	51.6	56.2	24.1	26.7	22.6	25.0
8	55.4	67.6	45.8	50.9	44.0	49.7	37.6	41.6	49.2	54.5	21.6	24.4	21.6	24.0
9	53.7	66.2			42.2	48.6	33.4	37.6	49.2	54.3	19.9	22.9	20.4	22.6
10	51.9	65.3			40.8	47.7	32.4	37.0	46.1	52.6	19.1	22.1	18.4	21.2

ICD-10 classification		
	C14	
<i>cont'd</i>	Lip,mouth,pha r. unspec. n=39	
Years	obs. %	rel. %
0	100.0	100.0

Table 4d. Observed (obs.) and relative (rel.) survival of patients with HN cancer by ICD-10 classification for period 1998-2016 (N=7,592).



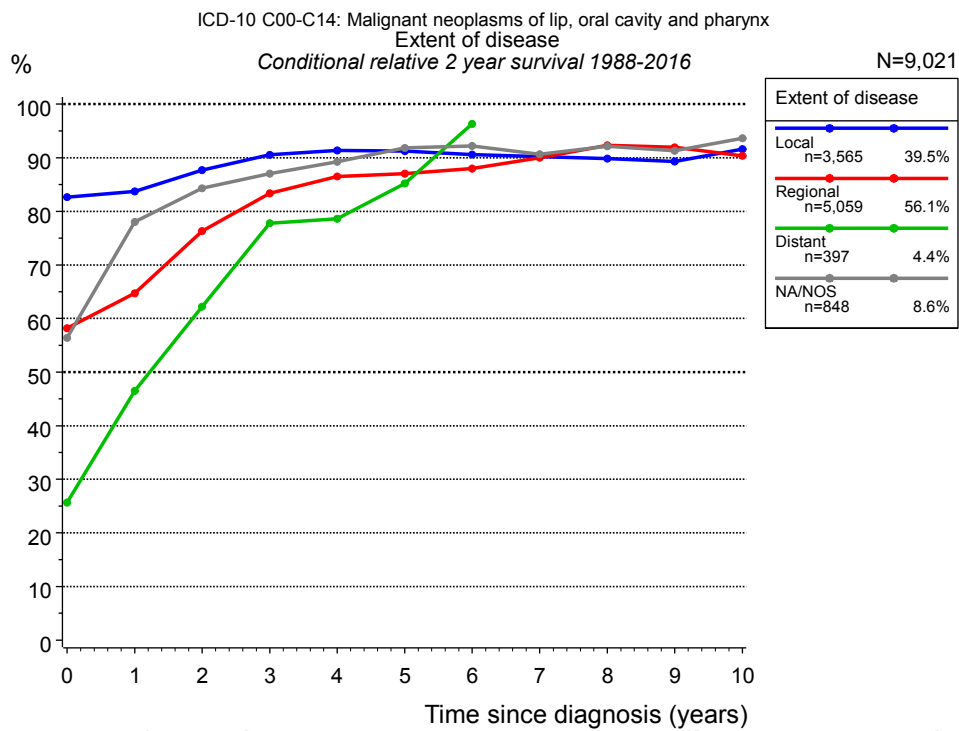


Figure 4e. Conditional relative 2-year survival of patients with HN cancer by extent of disease. For 9,053 of 9,869 cases diagnosed between 1988 and 2016 valid data could be obtained for this item. For a total of 9,021 cases an evaluable classification was established. The grey line represents the subgroup of 848 patients with missing values regarding extent of disease (8.6 % of 9,869 patients, the percent values of all other categories are related to n=9,021).

Years	Extent of disease							
	Local		Regional		Distant		NA/NOS	
	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs
0	3,565	82.7	5,059	58.2	397	25.6	848	56.4
1	3,091	83.7	3,669	64.7	148	46.5	517	78.1
2	2,614	87.7	2,605	76.3	86	62.2	426	84.3
3	2,255	90.6	2,022	83.4	57	77.8	370	87.0
4	1,941	91.4	1,658	86.5	42	78.6	318	89.2
5	1,701	91.3	1,381	87.0	34	85.2	279	91.9
6	1,432	90.6	1,158	88.0	26	96.3	238	92.2
7	1,239	90.3	948	90.0			208	90.6
8	1,047	89.8	782	92.3			176	92.2
9	878	89.3	648	91.9			147	91.3
10	748	91.6	547	90.3			127	93.6

Table 4f. Conditional relative 2-year survival of patients with HN cancer by extent of disease for period 1988-2016 (N=9,021).

Conditional relative survival rates refer to the relative survival probability, in this case for 2 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 4c). 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 extent of disease="Local", who are alive at least 3 years after cancer diagnosis, the conditional relative 2-year survival rate is 90.6% (n=2,255).

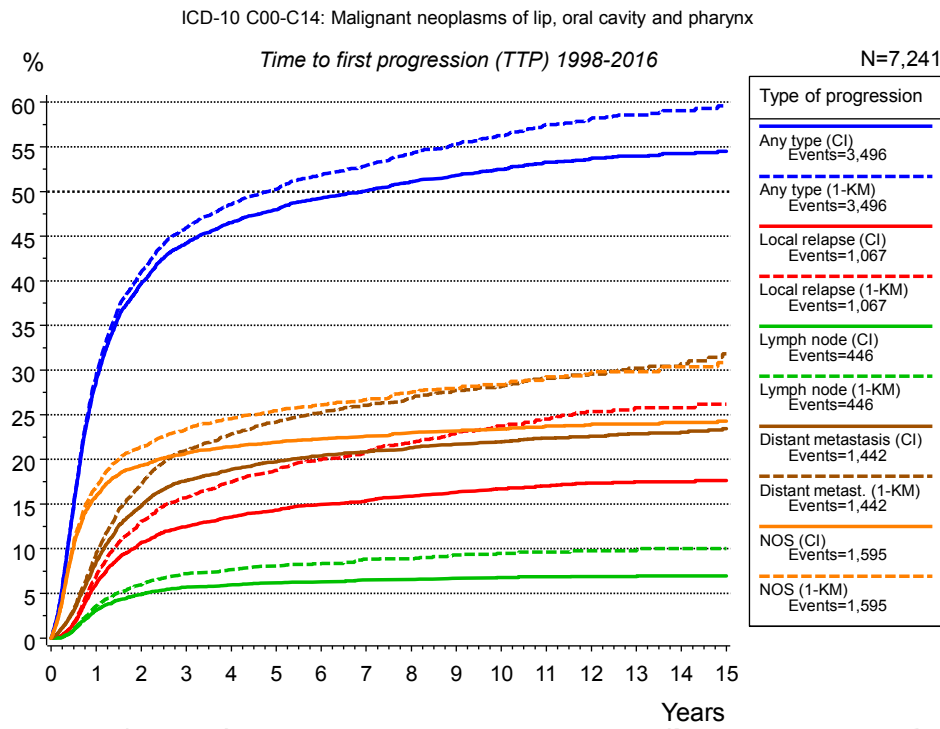


Figure 5a. Time to first progression of 7,241 patients with HN cancer diagnosed between 1998 and 2016 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

Years	Type of progression						
	Any type (CI)	Any type (1-KM)	Local relapse (CI)	Local relapse (1-KM)	Lymph node (CI)	Lymph node (1-KM)	Distant metastasis (CI)
	n=7,241 %	n=7,241 %	n=7,241 %	n=7,241 %	n=7,241 %	n=7,241 %	n=7,241 %
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	28.9	29.5	6.1	7.0	3.1	3.6	8.6
2	39.7	41.0	10.7	13.1	4.9	5.9	14.8
3	44.2	45.9	12.5	15.7	5.7	7.2	17.7
4	46.5	48.5	13.6	17.5	6.0	7.7	18.9
5	48.0	50.3	14.3	18.8	6.2	8.1	19.8
6	49.3	51.8	15.0	20.0	6.3	8.3	20.4
7	50.1	52.9	15.4	20.8	6.5	8.8	20.9
8	51.1	54.2	15.9	21.9	6.6	8.9	21.3
9	51.8	55.3	16.4	22.9	6.7	9.3	21.8
10	52.5	56.2	16.7	23.7	6.8	9.5	22.0
11	53.3	57.5	17.0	24.5	6.8	9.6	22.4
12	53.7	58.1	17.3	25.4	6.9	9.8	22.6
13	54.0	58.6	17.5	25.8	6.9	9.8	22.9
14	54.2	59.1	17.5	25.8	7.0	10.0	23.1
15	54.5	59.6	17.6	26.2	7.0	10.0	23.5

<i>cont'd</i>	Type of progression		
	Distant metast. (1- KM)	NOS (CI)	NOS (1-KM)
	n=7,241 %	n=7,241 %	n=7,241 %
Years			
0	0.0	0.0	0.0
1	9.5	15.9	17.0
2	17.1	19.3	21.4
3	21.0	20.7	23.4
4	22.8	21.4	24.6
5	24.2	21.9	25.4
6	25.2	22.3	26.1
7	26.0	22.6	26.7
8	26.9	23.0	27.5
9	27.7	23.2	27.9
10	28.2	23.4	28.4
11	29.1	23.7	29.2
12	29.6	23.9	29.7
13	30.2	24.0	29.8
14	30.7	24.1	30.4
15	31.8	24.3	30.8

Table 5b. Time to first progression of patients with HN cancer for period 1998-2016 (N=7,241).

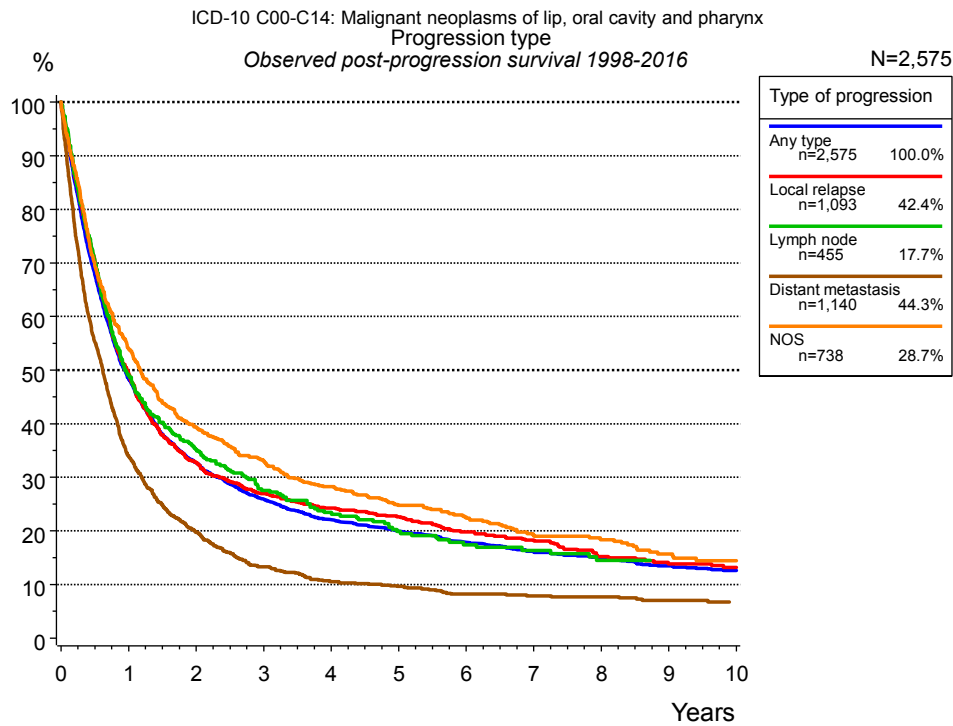


Figure 5c. Observed post-progression survival of 2,575 patients with HN cancer diagnosed between 1998 and 2016. These 2,575 patients with documented progression events during their course of disease represent 34.1 % of the totally 7,561 evaluated cases (incl. M1, n=320, 4.2 %). Patients with cancer relapse documented via death certificates only were excluded (n=1,241, 16.4 %). Multiple progression types on different sites are included in the evaluation even when not occurring synchronously. The NOS (not otherwise specified) class is included under the condition, that it is the one and only progression type during the course of disease.

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=2,575 %	Local relapse n=1,093 %	Lymph node n=455 %	Distant metastasis n=1,140 %	NOS n=738 %
0	100.0	100.0	100.0	100.0	100.0
1	48.3	49.3	49.2	34.1	53.8
2	32.7	32.7	35.2	19.7	39.4
3	25.9	27.0	27.6	13.3	33.1
4	22.1	24.3	23.4	10.6	28.3
5	19.9	22.6	19.9	9.6	24.7
6	17.9	19.8	17.4	8.2	22.6
7	16.1	18.3	16.3	7.9	19.2
8	14.8	15.2	14.5	7.7	18.4
9	13.5	13.9	14.5	7.0	15.7
10	12.6	13.2			14.5

Table 5d. Observed post-progression survival of patients with HN cancer for period 1998-2016 (N=2,575).

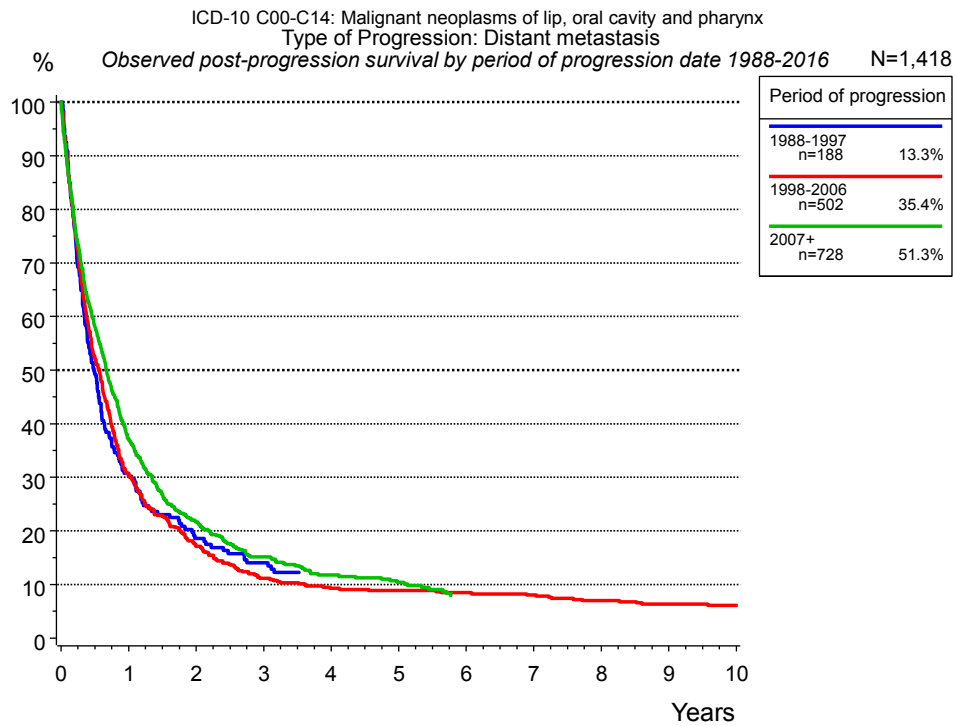


Figure 5e. Observed post-progression (distant metastasis) survival of 1,418 patients with HN cancer diagnosed between 1988 and 2016 by period of progression.

Years	Period of progression		
	1988-1997 n=188 %	1998-2006 n=502 %	2007+ n=728 %
0	100.0	100.0	100.0
1	30.2	30.8	37.2
2	18.6	17.1	21.7
3	14.0	11.1	15.2
4		9.3	11.7
5		8.8	10.4
6		8.4	
7		8.0	
8		7.0	
9		6.3	
10		6.1	

Table 5f. Observed post-progression (distant metastasis) survival of patients with HN cancer for period 1988-2016 by period of progression (N=1,418).

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

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