Munich Cancer Registry



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ICD-10 C06: Mouth cancer NOS

Year of diagnosis	1988-1997	1998-2014
Patients	152	331
Diseases	152	332
Cases evaluated	135	231
Creation date	03/02/2016	
Export date	12/23/2015	
Population	4.64 m	



Munich Cancer Registry at Munich Cancer Center Marchioninistr. 15 Munich, 81377 Germany

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

 $http://www.tumorregister-muenchen.de/en/facts/surv/sC06_E-ICD-10-C06-Mouth-cancer-NOS-survival.pdf$

Survival

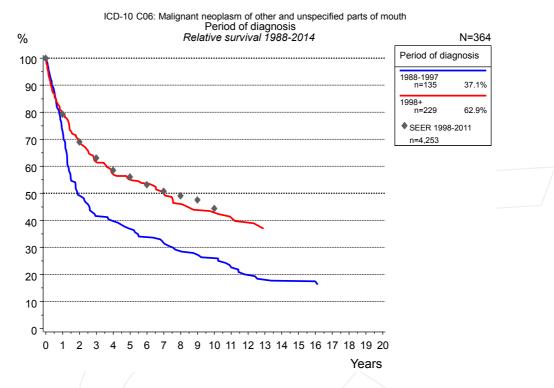


Figure 1a. Relative survival of patients with mouth cancer NOS by period of diagnosis. Included in the evaluation are 364 cases diagnosed between 1988 and 2014.

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 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.

	Period	of dia	gnosis		
			98+		
	n=1	35	n=2	229	
Years	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	
1	71.7	72.7	77.5	79.8	
2	48.1	49.2	65.4	68.6	
3	39.7	41.6	57.6	61.5	
4	37.4	39.7	52.2	57.0	
5	34.4	36.9	49.0	55.0	
6	31.3	33.8	46.8	53.7	
7	29.0	31.6	42.7	50.2	
8	26.0	28.6	38.1	46.0	
9	24.4	27.3	34.8	43.8	
10	22.9	26.0	33.6	42.9	
11	19.8	22.7	30.9	41.0	
12	16.6	19.8	29.5	39.2	
13	15.0	18.1	26.2	37.0	
14	14.2	17.7	26.2	36.1	
15	14.2	17.6			
16	13.4	17.4			
17	12.6	16.2			
18	12.6	15.9			

Table 1b. Observed (obs.) and relative (rel.) survival of patients with mouth cancer NOS by period of diagnosis for period 1988-2014 (N=364).

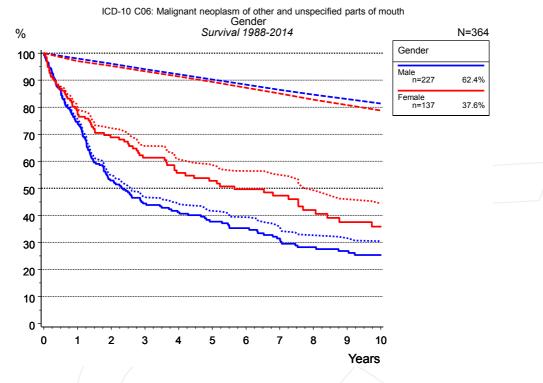


Figure 2a. Survival of patients with mouth cancer NOS by gender. Included in the evaluation are 364 cases diagnosed between 1988 and 2014.

	C	Gende	r			
	Ma	ale	Ferr	nale		
	n=2	227	n=137			
Years	obs. %	rel. %	obs. %	rel. %		
0	100.0	100.0	100.0	100.0		
1	74.2	75.7	77.3	79.6		
2	52.9	54.9	68.9	72.2		
3	44.4	46.8	61.4	65.7		
4	41.2	44.3	55.7	60.7		
5	37.7	41.6	52.8	58.6		
6	35.3	39.3	49.7	56.4		
7	31.5	35.7	47.3	55.0		
8	28.2	32.6	42.0	49.3		
9	26.8	31.6	37.5	46.0		
10	25.4	30.5	35.9	44.4		

Table 2b. Observed (obs.) and relative (rel.) survival of patients with mouth cancer NOS by gender for period 1988-2014 (N=364).



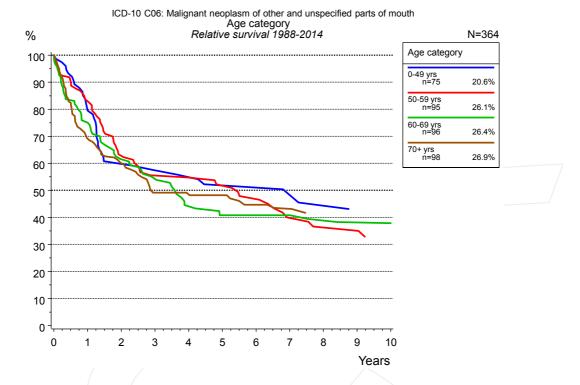


Figure 3a. Relative survival of patients with mouth cancer NOS by age category. Included in the evaluation are 364 cases diagnosed between 1988 and 2014.

		Age category						
	0-49	yrs	50-59 yrs		60-69 yrs		70+ yrs	
	n=	75	n=	95	n=96		n=	98
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	79.3	79.5	83.1	83.0	75.0	75.1	65.1	69.2
2	60.5	59.8	62.5	62.8	59.9	61.5	53.5	60.1
3	57.1	57.4	54.5	55.5	52.9	54.2	40.9	49.1
4	55.3	54.9	53.2	54.7	42.1	44.1	38.6	48.5
5	51.6	51.8	50.3	51.7	37.8	40.8	36.1	48.2
6	51.6	51.0	45.9	46.8	37.8	40.8	30.9	44.7
7	49.4	48.2	37.7	39.8	37.8	40.8	28.2	43.1
8	44.6	44.3	34.3	36.2	34.7	38.9		
9	41.9	42.9	34.3	35.0	32.9	38.1		
10	41.9	42.2	30.2	31.4	32.9	37.9		
	0 1 2 3 4 5 6 7 8 9	Means Means Years obs. % 0 100.0 1 79.3 2 60.5 3 57.1 4 55.3 5 51.6 6 51.6 7 49.4 8 44.6 9 41.9	0 100.0 100.0 1 79.3 79.5 2 60.5 59.8 3 57.1 57.4 4 55.3 54.9 5 51.6 51.8 6 51.6 51.0 7 49.4 48.2 8 44.6 44.3 9 41.9 42.9	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

Table 3b. Observed (obs.) and relative (rel.) survival of patients with mouth cancer NOS by age category for period 1988-2014 (N=364).



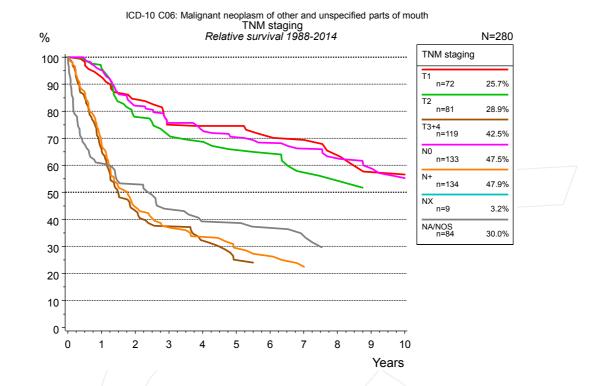


Figure 4a. Relative survival of patients with mouth cancer NOS by TNM staging. For 285 of 364 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. For a total of 280 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 84 patients with missing values regarding TNM staging (23.1 % of 364 patients, the percent values of all other categories are related to n=280). Subgroups with sample size <15 are dropped from the chart.

	TNM staging													
	Т	1	Т	2	Т3	+4	Ň	0	N	+	NX		NA/NOS	
	n=	72	n=	81	n=1	19	n=1	33	n=1	34	n=	=9	n=	84
Years	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	91.7	92.6	93.8	95.8	65.0	65.9	94.0	95.2	66.7	67.9			59.0	60.7
2	81.5	84.5	74.7	77.9	42.2	43.2	79.3	82.1	43.2	44.6			50.6	53.0
3	70.5	75.0	67.7	71.1	36.2	37.5	71.7	75.7	35.7	37.0			40.5	43.8
4	68.8	74.6	64.5	68.7	30.3	32.2	68.1	72.8	31.5	33.5			35.4	39.2
5	68.8	74.6	59.5	65.7	23.1	25.0	64.2	70.4	26.9	29.4			35.4	38.7
6	63.0	70.5	57.6	64.4	21.8	23.6	61.1	68.3	24.5	26.4			32.7	36.8
7	60.9	69.4	49.8	57.3			57.7	66.2	20.8	22.5			29.5	33.9
8	54.2	63.7	47.6	54.3			54.1	62.6					24.8	29.7
9	46.3	57.5	42.9	51.6			49.9	58.9					24.8	29.6
10	46.3	56.6	42.9	51.1			45.5	55.3					24.8	29.5

Table 4b. Observed (obs.) and relative (rel.) survival of patients with mouth cancer NOS by TNM staging for period 1988-2014 (N=548).

ICD-10 C06: Malignant neoplasm of other and unspecified parts of mouth

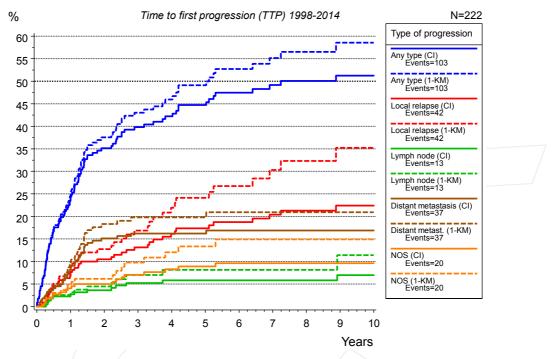


Figure 5a. Time to first progression of 222 patients with mouth cancer NOS diagnosed between 1998 and 2014 (M0 only in solid cancers) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

Type of progression											
							Distant				
	Any type (CI)	Any type (1-KM)	Local relapse (CI)	Local relapse (1-KM)	Lymph node (CI)	Lymph node (1-KM)	metastasis (CI)				
	n=222	n=222	n=222	n=222	n=222	n=222	n=222				
Years	%	%	%	%	%	%	%				
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
1	23.9	25.0	7.2	8.4	2.7	3.2	8.6				
2	35.1	37.5	10.5	12.7	3.6	4.5	15.1				
3	39.8	43.0	13.1	16.9	5.2	7.0	16.2				
4	42.2	45.9	16.1	21.9	5.8	8.1	16.2				
5	44.7	49.1	17.4	24.1	5.8	8.1	16.2				
6	47.5	52.7	18.8	26.8	5.8	8.1	16.9				
7	49.1	55.1	20.4	30.3	5.8	8.1	16.9				
8	50.1	56.5	21.3	32.3	5.8	8.1	16.9				
9	51.2	58.6	22.4	35.2	7.0	11.4	16.9				
10	51.2	58.6	22.4	35.2	7.0	11.4	16.9				

Type of progression									
	Distant								
cont'd	metast. (1- KM)	NOS (CI)	NOS (1-KM)						
	n=222	n=222	n=222						
Years	%	%	%						
0	0.0	0.0	0.0						
1	9.9	4.1	4.9						
2	18.3	5.0	6.2						
3	19.8	7.1	9.8						
4	19.8	8.3	12.0						
5	19.8	8.9	13.3						
6	20.9	9.6	14.9						
7	20.9	9.6	14.9						
8	20.9	9.6	14.9						
9	20.9	9.6	14.9						
10	20.9	9.6	14.9						

Table 5b. Time to first progression of patients with mouth cancer NOS for period 1998-2014 (N=222).



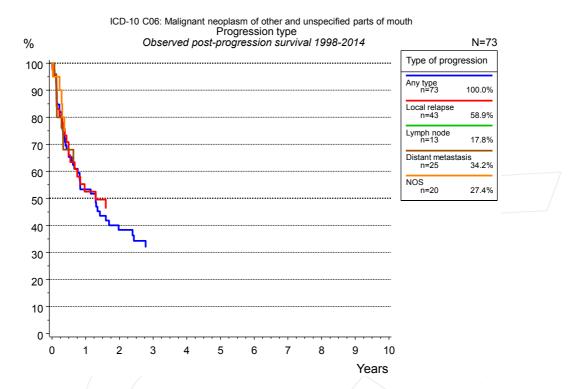


Figure 5c. Observed post-progression survival of 73 patients with mouth cancer NOS diagnosed between 1998 and 2014. These 73 patients with documented progression events during their course of disease represent 32.0% of the totally 228 evaluated cases (incl. M1, n=6, 2.6%). Patients with cancer relapse documented via death certificates only were excluded (n=36, 15.8%). Multiple progression types on different sites are included in the evaluation even when not occuring 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. Subgroups with sample size <15 are dropped 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 potientially considered in more than one subgroup.

Type of progression									
	Any type n=73			Distant metastasis n=25	NOS n=20				
Years	%	%	%	%	%				
0	100.0	100.0	100.0	100.0	100.0				
1	53.3	52.5							
2	38.3								
3	32.1								

Table 5d. Observed post-progression survival of patients with mouth cancer NOS for period 1998-2014 (N=73).

Shortcuts

MCR	Munich Cancer Registry, G	ermany
NCI	National Cancer Institute, L	JSA
SEER	Surveillance, Epidemiology	, and End Results, USA
UICC	Union for International Can	cer 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-КМ	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

Munich Cancer Registry. Survival ICD-10 C06: Mouth cancer NOS [Internet]. 2016 [updated 2016 Mar 2; cited 2016 May 1]. Available from: http://www.tumorregister-muenchen.de/en/facts/surv/sC06_E-ICD-10-C06-Mouth-cancer-NOS-survival.pdf

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