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

C07, C08: Salivary gland cancer

Year of diagnosis	1988-2012
Patients	752
Diseases	752
Cases evaluated	398
Creation date	03/25/2014
Export date	02/12/2014
Population	4.5 m



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C0708E.pdf

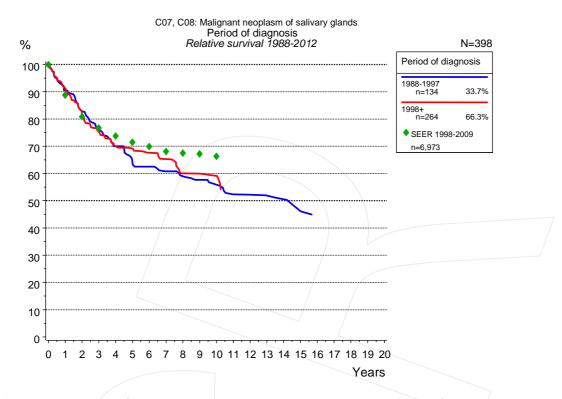


Figure 1a. Relative survival of patients with salivary gland cancer by period of diagnosis. Included in the evaluation are 398 cases diagnosed between 1988 and 2012.

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 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.

I	Period of diagnosis				
	1988-	1997	1998+		
	n=1	34	n=264		
Years	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	
1	87.9	90.5	88.8	91.2	
2	78.0	82.8	77.7	81.8	
3	69.6	75.8	70.2	75.2	
4	62.7	70.0	63.4	69.9	
5	55.7	63.6	62.1	69.1	
6	54.2	62.5	59.0	67.6	
7	50.3	60.8	56.2	65.3	
8	48.0	58.9	50.2	60.1	
9	45.6	57.7	50.2	59.9	
10	43.3	55.8	48.7	59.1	
11	39.3	52.3	42.6	52.8	
12	38.4	52.2			
13	37.4	51.8			
14	36.4	50.5			
15	31.8	46.1			
16	30.6	44.7			
17	30.6	44.2			

Table 1b. Observed (obs.) and relative (rel.) survival of patients with salivary gland cancer by period of diagnosis for period 1988-2012 (N=398).

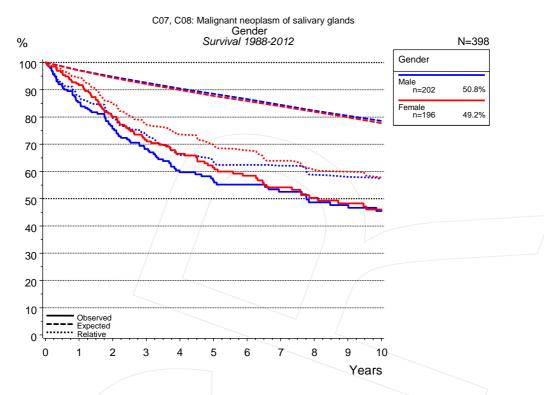


Figure 2a. Survival of patients with salivary gland cancer by gender. Included in the evaluation are 398 cases diagnosed between 1988 and 2012.

Gender								
	Ma	ale	Female					
	n=2	202	n=196					
Years	obs. %	rel. %	obs. %	rel. %				
0	100.0	100.0	100.0	100.0				
1	85.4	87.6	91.7	94.4				
2	75.7	79.7	80.1	84.7				
3	68.2 73.		71.6	77.2				
4	59.7	66.0	66.5	73.6				
5	56.7	63.6	61.4	69.6				
6	55.2	62.4	58.4	67.7				
7	52.5	62.1	54.2	63.9				
8	48.7	58.8	50.3	60.7				
9	47.7	58.0	48.3	59.9				
10	45.5	57.2	46.0	57.8				

Table 2b. Observed (obs.) and relative (rel.) survival of patients with salivary gland cancer by gender for period 1988-2012 (N=398).

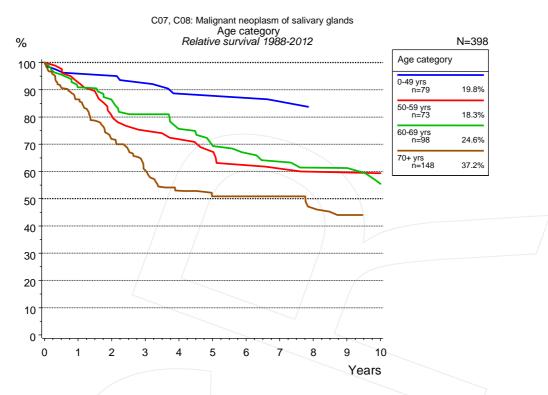


Figure 3a. Relative survival of patients with salivary gland cancer by age category. Included in the evaluation are 398 cases diagnosed between 1988 and 2012.

Age category									
0-49	yrs	50-59 yrs		60-69	9 yrs	70+ yrs			
n=	79	n=73		n=98		n=148			
obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %		
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
96.2	95.9	93.0	92.7	89.6	90.9	81.3	86.4		
96.2	95.1	80.0	80.5	83.9	86.2	63.2	71.9		
93.2	92.4	73.9	75.0	77.9	81.0	50.3	60.4		
88.1	88.5	70.6	71.8	71.0	75.6	41.0	52.9		
88.1	87.8	66.7	67.2	65.2	69.5	36.3	50.9		
88.1	87.0	60.8	62.3	60.6	66.7	36.3	50.9		
85.5	85.7	58.8	61.1	57.2	63.6	31.9	50.9		
82.5	83.7	56.5	59.9	53.3	61.4	27.0	46.5		
82.5	83.1	56.5	59.6	53.3	61.3	23.3	44.0		
82.5	82.5	56.5	59.4	46.0	55.4	22.0	43.9		
	n= obs. % 100.0 96.2 96.2 93.2 88.1 88.1 85.5 82.5	100.0 100.0 96.2 95.9 96.2 95.1 93.2 92.4 88.1 88.5 88.1 87.0 85.5 85.7 82.5 83.1	0-49 yrs n=79 n= obs. % rel. % obs. % 100.0 100.0 100.0 96.2 95.9 93.0 96.2 95.1 80.0 93.2 92.4 73.9 88.1 88.5 70.6 88.1 87.8 66.7 88.1 87.0 60.8 85.5 85.7 58.8 82.5 83.7 56.5 82.5 83.1 56.5	0-49 yrs n=79 n=73 obs. % rel. % obs. % rel. % 100.0 100.0 100.0 100.0 96.2 95.9 93.0 92.7 96.2 95.1 80.0 80.5 93.2 92.4 73.9 75.0 88.1 88.5 70.6 71.8 88.1 87.8 66.7 67.2 88.1 87.0 60.8 62.3 85.5 85.7 58.8 61.1 82.5 83.7 56.5 59.9 82.5 83.1 56.5 59.6	0-49 yrs 50-59 yrs 60-66 n=79 n=73 n=7 obs. % rel. % obs. % rel. % obs. % obs. % rel. % obs. % 100.0 100.0 100.0 100.0 100.0 96.2 95.9 93.0 92.7 89.6 96.2 95.1 80.0 80.5 83.9 93.2 92.4 73.9 75.0 77.9 88.1 88.5 70.6 71.8 71.0 88.1 87.8 66.7 67.2 65.2 88.1 87.0 60.8 62.3 60.6 85.5 85.7 58.8 61.1 57.2 82.5 83.7 56.5 59.9 53.3 82.5 83.1 56.5 59.6 53.3	0-49 yrs 50-59 yrs 60-69 yrs n=79 n=73 n=98 obs. % rel. % obs. % rel. % obs. % rel. % obs. % rel. % obs. % rel. % 100.0 100.0 100.0 100.0 100.0 100.0 96.2 95.9 93.0 92.7 89.6 90.9 96.2 95.1 80.0 80.5 83.9 86.2 93.2 92.4 73.9 75.0 77.9 81.0 88.1 88.5 70.6 71.8 71.0 75.6 88.1 87.8 66.7 67.2 65.2 69.5 88.1 87.0 60.8 62.3 60.6 66.7 85.5 85.7 58.8 61.1 57.2 63.6 82.5 83.7 56.5 59.9 53.3 61.4 82.5 83.1 56.5 59.6 53.3 61.3	0-49 yrs 50-59 yrs 60-69 yrs 70+ n=78 obs. % rel. % obs. % obs. % rel. % obs. % rel. % obs. % obs. % o		

Table 3b. Observed (obs.) and relative (rel.) survival of patients with salivary gland cancer by age category for period 1988-2012 (N=398).

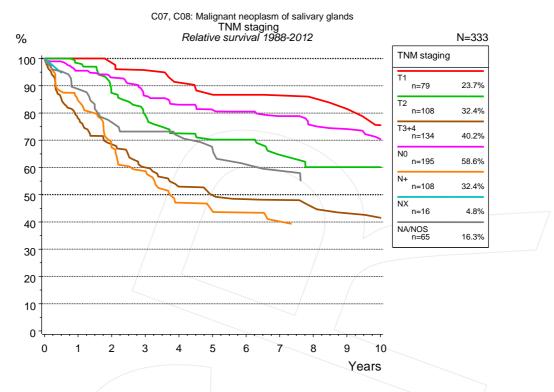


Figure 4a. Relative survival of patients with salivary gland cancer by TNM staging. For 336 of 398 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. For a total of 333 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 65 patients with missing values regarding TNM staging (16.3% of 398 patients, the percent values of all other categories are related to n=333).

	TNM staging													
	Т	1	Т	2	T3	+4	N	0	N	+	N	Χ	NA/I	NOS
	n=	79	n=1	108	n=1	34	n=1	195	n=1	108	n=	16	n=	65
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	100.0	100.0	96.2	98.2	75.1	78.0	93.2	95.5	82.0	84.5			87.5	88.8
2	97.1	98.4	83.1	87.3	64.6	68.5	88.6	93.0	63.5	67.3			73.1	76.6
3	91.0	95.7	74.5	79.1	54.6	60.0	80.4	86.3	54.9	58.6			68.4	73.2
4	85.5	91.2	66.2	72.5	46.6	52.9	75.6	83.1	42.2	47.1			64.9	71.5
5	81.6	86.7	62.4	70.3	43.2	49.8	72.6	81.2	39.4	43.9			59.1	66.7
6	79.4	86.7	62.4	70.3	40.9	48.3	70.9	80.5	38.0	43.4			52.9	61.1
7	77.0	86.5	55.2	64.6	39.5	48.1	67.4	78.9	34.1	40.1			50.6	58.8
8	74.3	85.5	50.2	60.1	36.2	45.3	63.5	75.4					46.0	53.1
9	71.5	81.5	50.2	60.1	32.9	43.2	61.4	74.1					46.0	47.7
10	62.6	75.5	50.2	60.1	31.3	41.5	56.9	70.4					46.0	42.2

Table 4b. Observed (obs.) and relative (rel.) survival of patients with salivary gland cancer by TNM staging for period 1988-2012 (N=640).

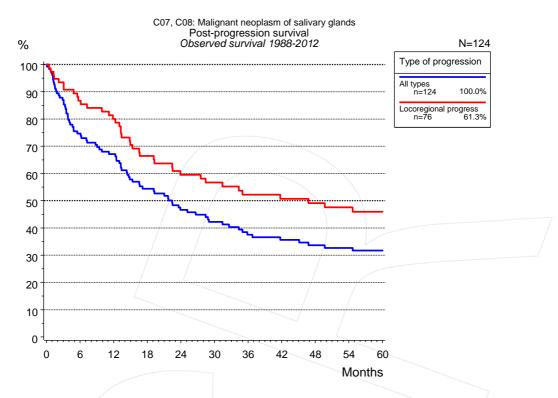


Figure 5a. Observed post-progression survival of 124 patients with salivary gland cancer diagnosed between 1988 and 2012 (incl. M1). These 124 patients with documented progression events during their course of disease represent 31.2% of the totally 398 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=23, 5.8%). Multiple progression types on different sites are included in the evaluation even when not occurring synchronously.

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	Locoregional progress					
	n=124	n=76					
Months	%	%					
0	100.0	100.0					
12	67.1	80.0					
24	46.6	59.5					
36	37.5	52.2					
48	33.7	49.1					
60	31.7	45.9					

Table 5b. Observed post-progression survival of patients with salivary gland cancer for period 1988-2012 (N=124).

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

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