Munich Cancer Registry



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ICD-10 C11: Nasopharynx cancer

Survival

Year of diagnosis	1988-1997	1998-2020
Patients	95	352
Diseases	95	352
Cases evaluated	88	284
Creation date	04/15/2022	
Database export	12/20/2021	
Population	4.92 m	



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

https://www.tumorregister-muenchen.de/en/facts/surv/sC11__E-ICD-10-C11-Nasopharynx-cancersurvival.pdf

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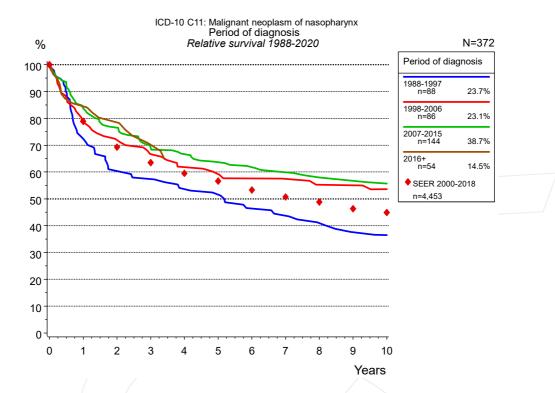


Figure 1a. Relative survival of patients with nasopharynx cancer by period of diagnosis. Included in the evaluation are 372 cases diagnosed between 1988 and 2020.

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 2018, 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.

			ı						
		1988-	1997	1998-	1998-2006		2007-2015		16+
		n=	n=88		86	n=1	44	n=	54
	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	72.4	72.4	78.2	78.7	83.1	83.8	85.1	84.5
	2	59.6	60.3	70.8	71.9	75.4	76.6	79.2	78.5
	3	56.0	57.4	64.5	66.6	66.8	69.0	69.1	70.2
	4	51.2	53.6	59.4	61.8	63.9	66.7		
	5	48.8	51.5	56.8	59.2	60.3	63.6		
	6	42.9	46.4	54.2	57.6	58.1	61.8		
	7	40.5	43.7	52.9	57.4	55.6	59.9		
	8	36.9	40.9	50.1	55.3	52.6	57.9		
	9	33.2	37.5	50.1	55.0	51.4	56.7		
	10	32.0	36.5	47.3	53.6	50.0	55.7		
	Median	4.8		9.3		10.6			

Table 1b. Observed (obs.) and relative (rel.) survival of patients with nasopharynx cancer by period of diagnosis for period 1988-2020 (N=372).

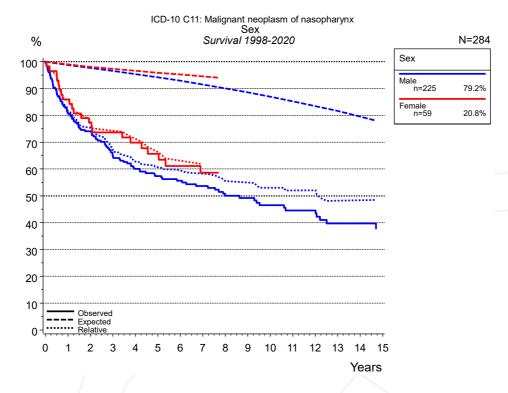


Figure 2a. Survival of patients with nasopharynx cancer by sex. Included in the evaluation are 284 cases diagnosed between 1998 and 2020.

Sex					
	Ma	ıle	Fem	nale	
	n=2	225	n=	59	
Years	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	
1	81.0	81.8	86.0	85.5	
2	74.1	75.4	77.2	77.7	
3	64.6	66.8	73.7	74.3	
4	60.0	62.8	69.8	71.3	
5	57.3	60.6	65.6	66.3	
6	55.6	59.4	61.2	63.1	
7	53.7	58.2	58.6	61.9	
8	50.0	55.5			
9	49.2	55.0			
10	46.5	53.0			
11	44.6	51.9			
12	44.6	52.0			
13	39.7	48.2			
14	39.7	48.3			
Median	8.0				

Table 2b. Observed (obs.) and relative (rel.) survival of patients with nasopharynx cancer by sex for period 1998-2020 (N=284).

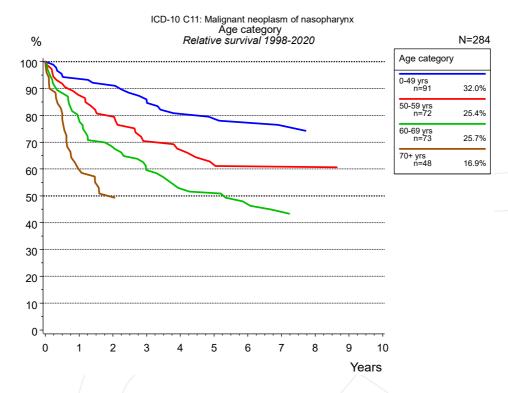


Figure 3a. Relative survival of patients with nasopharynx cancer by age category. Included in the evaluation are 284 cases diagnosed between 1998 and 2020.

	Age category							
	0-49	yrs	50-59	9 yrs ¯	60-69	9 yrs	70+ yrs	
	n=	91	n=	72	n=	73	n=48	
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	94.3	93.7	87.3	87.5	77.8	78.3	58.3	59.7
2	91.9	91.1	80.0	79.5	66.7	68.1	47.9	49.4
3	85.6	85.8	69.2	70.3	56.9	59.6		
4	80.3	80.6	65.9	67.1	49.7	52.7		
5	78.8	78.7	60.8	61.5	48.1	51.0		
6	77.3	77.3	59.1	61.0	43.4	46.8		
7	75.5	76.2	59.1	60.8	39.9	44.0		
8	73.1	74.0	59.1	60.7				
9	73.1	73.1	56.5	59.6				
10	73.1	72.2						
Median					3.9		1.6	

Table 3b. Observed (obs.) and relative (rel.) survival of patients with nasopharynx cancer by age category for period 1998-2020 (N=284).

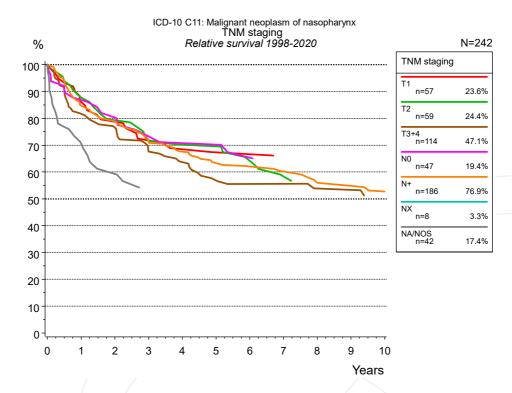


Figure 4a. Relative survival of patients with nasopharynx cancer by TNM staging. For 247 of 284 cases diagnosed between 1998 and 2020 valid data could be obtained for this item. For a total of 242 cases an evaluable classification was established. The accumulated percentage exceeds the 100 % value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 42 patients with missing values regarding TNM staging (14.8 % of 284 patients, the percent values of all other categories are related to n=242). Subgroups with sample size <20 are omitted from the chart.

	TNM staging											
	Т	1	Т	2	T3	+4	N	0	N	+	NA/N	NOS
	n=	57	n=	59	n=1	14	n=	47	n=1	86	n=	42
Years	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
1	85.6	86.1	88.1	87.8	81.1	81.7	86.8	86.9	84.2	84.7	70.2	70.6
2	78.3	78.8	77.9	79.3	75.5	76.5	79.9	80.3	77.6	78.8	60.2	59.3
3	70.5	71.8	70.8	71.8	65.4	67.6	70.0	73.3	69.4	71.4		
4	66.5	68.5	67.2	70.2	61.2	63.7	67.5	70.8	65.1	67.6		
5	64.3	67.3	67.2	69.6	54.4	56.8	67.5	70.2	60.6	63.3		
6	64.3	66.6	61.0	64.2	52.0	55.5	61.9	65.3	58.5	62.1		
7	61.6	66.0	54.0	58.3	52.0	55.6	58.9	65.4	56.1	60.2		
8					48.7	53.9			51.3	56.0		
9					48.7	53.3			50.2	54.8		
10					45.1	50.5			47.7	52.7		
Median			7.5		7.9			/	9.4			

Table 4b. Observed (obs.) and relative (rel.) survival of patients with nasopharynx cancer by TNM staging for period 1998-2020 (N=242).

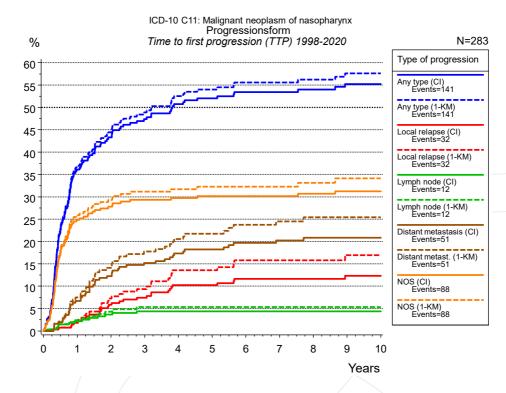


Figure 5a. Time to first progression of 283 patients with nasopharynx cancer diagnosed between 1998 and 2020 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

	Type of progression							
	Any type (CI)	Any type (1- KM)	Local relapse (CI)	Local relapse (1-KM)	Lymph node (CI)	Lymph node (1-KM)	Distant metastasis (CI)	
N	260	260	283	283	283	283	260	
Events	137	137	31	31	12	12	50	
compet.	20		105		119		71	
Years	%	%	%	%	%	%	%	
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1	36.1	36.9	1.8	2.1	2.2	2.4	6.7	
2	43.3	44.4	5.9	7.2	3.6	4.3	12.3	
3	47.4	48.9	7.4	9.3	4.4	5.4	15.2	
4	50.8	52.6	10.3	13.6	4.4	5.4	17.3	
5	52.0	54.0	10.3	13.6	4.4	5.4	18.2	
6	53.4	55.6	11.7	15.8	4.4	5.4	19.7	
7	53.4	55.6	11.7	15.8	4.4	5.4	20.2	
8	54.0	56.2	11.7	15.8	4.4	5.4	20.8	
9	55.2	57.6	12.3	17.0	4.4	5.4	20.8	
10	55.2	57.6	12.3	17.0	4.4	5.4	20.8	

	• •	f progressior	1
	Distant		
cont'd	metast. (1-	NOS (CI)	NOS (1-KM)
	KM)		
N	260	283	283
Events	50	85	85
compet.		74	
Years	%	%	%
0	0.0	0.0	0.0
1	7.5	24.8	25.9
2	14.1	27.8	29.3
3	17.8	29.3	31.1
4	20.6	29.7	31.7
5	21.7	30.1	32.3
6	23.8	30.1	32.3
7	24.5	30.1	32.3
8	25.4	30.7	33.1
9	25.4	31.3	34.1
10	25.4	31.3	34.1

Table 5b. Time to first progression of patients with nasopharynx cancer for period 1998-2020 (N=283), also showing the total of progression events (Events) and of deaths as competing risk (compet.).

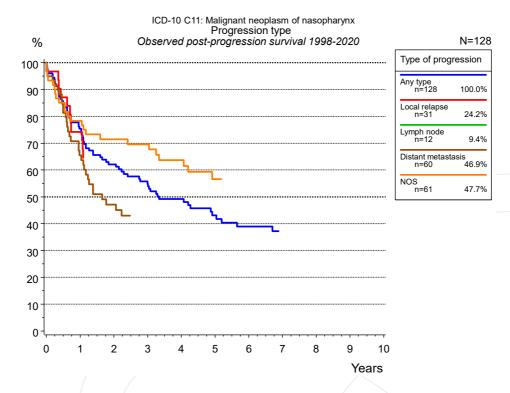


Figure 5c. Observed post-progression survival of 128 patients with nasopharynx cancer diagnosed between 1998 and 2020. These 128 patients with documented progression events during their course of disease represent 45.2 % of the totally 283 evaluated cases (incl. M1, n=23, 8.1 %). Patients with cancer relapse documented via death certificates only were excluded (n=36, 12.7 %). 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 <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 potientially considered in more than one subgroup.

Type of progression						
	Any type	Local relapse	Distant metastasis	NOS		
	n=128	n=31	n=60	n=61		
Years	%	%	%	%		
0	100.0	100.0	100.0	100.0		
1	75.3	74.2	65.5	78.3		
2	62.1		47.1	71.5		
3	54.8			69.6		
4	49.2			63.7		
5	43.1			56.6		
6	38.9					

Table 5d. Observed post-progression survival of patients with nasopharynx cancer for period 1998-2020 (N=128).

Shortcuts

MCR	Munich Cancer Registry, Germany					
NCI SEER UICC	National Cancer Institute, USA Surveillance, Epidemiology, and End Results, USA Union for International Cancer Control, Geneva					
DCO NA NOS	Death certificate only Not available Not otherwise specified	Death certificate provides the only notification to the registry.				
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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