# **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

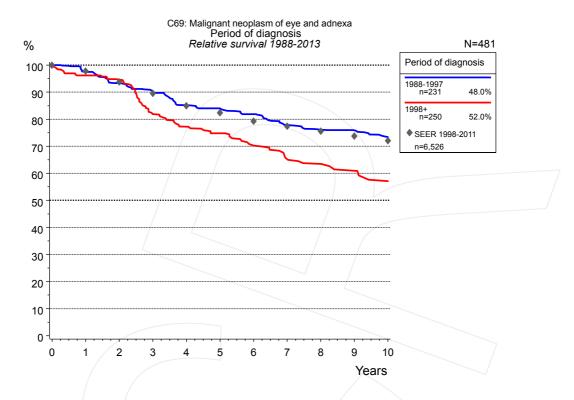
### **Cancer statistics: Survival**

C69: Eye cancer

Year of diagnosis	1988-2013
Patients	761
Diseases	765
Cases evaluated	481
Creation date	05/13/2015
Export date	12/30/2014
Population	4.64 m



http://www.tumorregister-muenchen.de/en/facts/surv/surv\_C69\_\_E.pdf

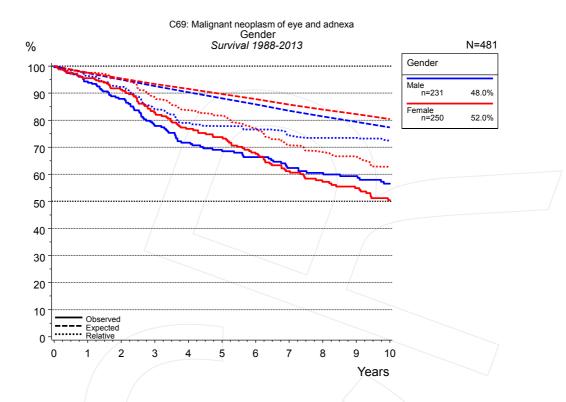


**Figure 1a.** Relative survival of patients with eye cancer by period of diagnosis. Included in the evaluation are 481 cases diagnosed between 1988 and 2013.

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.

Period of diagnosis				
	1988-	1997	1998+	
	n=2	231	n=2	250
Years	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	95.7	97.5	94.3	96.2
2	89.6	93.3	89.9	94.6
3	84.8	90.3	75.8	81.9
4	78.1	85.2	70.2	77.2
5	75.9	84.0	66.4	74.8
6	72.4	81.9	60.2	70.3
7	67.1	77.9	54.8	65.2
8	64.0	76.2	52.3	63.5
9	62.7	75.9	49.2	61.0
10	59.1	73.4	44.9	57.1

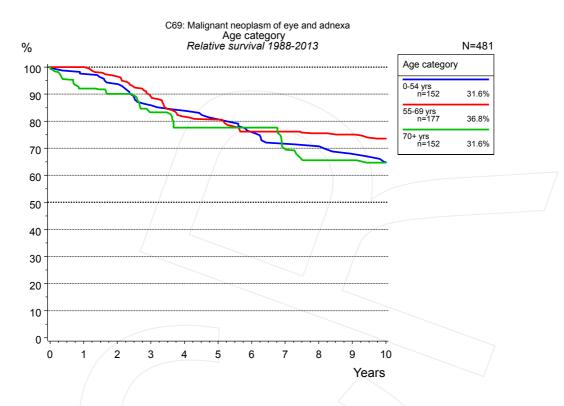
**Table 1b.** Observed (obs.) and relative (rel.) survival of patients with eye cancer by period of diagnosis for period 1988-2013 (N=481).



**Figure 2a.** Survival of patients with eye cancer by gender. Included in the evaluation are 481 cases diagnosed between 1988 and 2013.

Gender								
	Ma	ale	Female					
	n=2	231	n=2	250				
Years	obs. %	rel. %	obs. %	rel. %				
0	100.0	100.0	100.0	100.0				
1	94.3	96.4	95.6	97.6				
2	87.9	92.3	91.3	95.4				
3	77.9	84.0	82.9	88.4				
4	71.7	79.0	76.8	83.7				
5	69.1	77.8	73.8	81.7				
6	66.3	76.6	67.6	76.9				
7	62.3	74.4	61.2	70.8				
8	60.6	73.5	57.3	68.2				
9	59.3	73.5	54.9	66.5				
10	56.5	72.4	50.5	62.6				

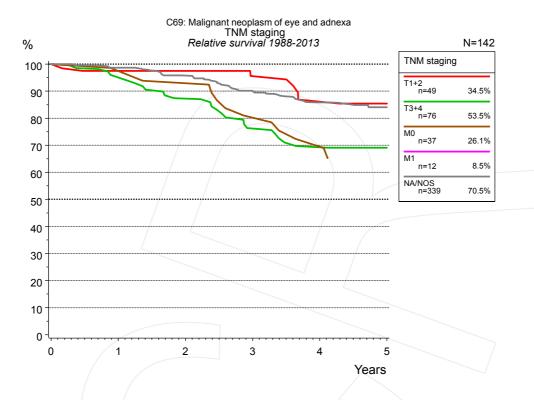
**Table 2b.** Observed (obs.) and relative (rel.) survival of patients with eye cancer by gender for period 1988-2013 (N=481).



**Figure 3a.** Relative survival of patients with eye cancer by age category. Included in the evaluation are 481 cases diagnosed between 1988 and 2013.

Age category									
	0-54	yrs	55-69	9 yrs	70+	yrs			
	n=1	152	n=1	77	n=1	52			
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %			
0	100.0	100.0	100.0	100.0	100.0	100.0			
1	97.4	97.5	99.4	100.0	87.2	92.1			
2	93.9	93.7	94.2	96.5	80.1	90.1			
3	85.8 85.9 83.5 83.9		85.7	89.1	68.6	83.3			
4			77.5	81.7	61.0	77.6			
5	80.2 80.		75.5	80.6	57.6	77.6			
6	75.0	75.9	70.0	76.2	54.9	77.6			
7	70.6 71.7		68.6	76.2	43.6	69.6			
8	69.7	70.7	66.5	75.5	37.6	65.6			
9	65.8	67.9	65.0	75.1	37.6	65.6			
10	62.5	64.8	61.8	73.6	32.5	64.6			

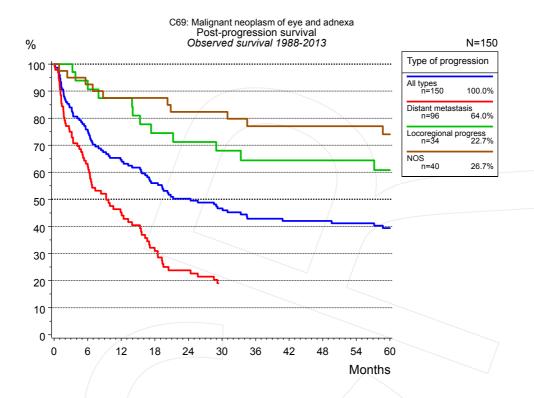
**Table 3b.** Observed (obs.) and relative (rel.) survival of patients with eye cancer by age category for period 1988-2013 (N=481).



**Figure 4a.** Relative survival of patients with eye cancer by TNM staging. For 142 of 481 cases diagnosed between 1988 and 2013 valid data could be obtained for this item. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 339 patients with missing values regarding TNM staging (70.5% of 481 patients, the percent values of all other categories are related to n=142). Subgroups with sample size <15 are dropped from the chart.

TNM staging										
	T1+2		T3+4		M	0	M	1	NA/N	NOS
	n=49 n=76		n=49 n=76 n=37		n=	12	n=3	39		
Years	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	95.9	97.5	93.4	95.1	97.3	97.4			96.7	98.6
2	95.9	97.5	82.3	87.2	91.9	92.9			91.7	95.7
3	87.3	95.5	69.2	76.2	77.3	80.2			84.5	90.0
4	77.9	86.1	61.8	69.2	68.1	69.5			78.9	85.8
5	75.4	85.4	60.3	69.1	61.0	62.3			76.0	84.0

**Table 4b.** Observed (obs.) and relative (rel.) survival of patients with eye cancer by TNM staging for period 1988-2013 (N=174).



**Figure 5a.** Observed post-progression survival of 150 patients with eye cancer diagnosed between 1988 and 2013 (incl. M1). These 150 patients with documented progression events during their course of disease represent 31.2% of the totally 481 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=20, 4.2%). 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.

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	Distant metastasis	NOS			
	n=150	n=96	n=34	n=40		
Months	%	%	%	%		
0	100.0	100.0	100.0	100.0		
12	64.6	45.2	87.5	87.5		
24	50.3	23.8	71.3	82.4		
36	42.9		64.4	77.0		
48	42.0		64.4	77.0		
60	39.4		60.9	74.1		

**Table 5b.** Observed post-progression survival of patients with eye cancer for period 1988-2013 (N=150).

#### **Shortcuts**

MCR Munich Cancer Registry,	Germany (Tumorregister München)
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NCI National Cancer Institute, USA

SEER Surveillance, Epidemiology, and End Results, USA UICC Union for International Cancer Control, Geneva

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

NA Not available

NOS Not otherwise specified

OS Observed/overall survival (Kaplan-Meier estimate)
RS Relative survival, compared to the general population,
ratio of observed to expected survival (Ederer II method),

reflecting excess mortality among cancer patients
Assembled survival chart (observed, expected, relative)

PPS Post-progression survival, survival since first relapse (Kaplan-Meier estimate)

Date of entry: Date of first locoregional recurrence, distant metastasis, unspecified

progression

AS

Event: Death of all causes

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

### **Recommended Citation**

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