Munich Cancer Registry



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ICD-10 C15: Oesophagus cancer

Year of diagnosis	1988-1997	1998-2014
Patients	591	3,896
Diseases	592	3,897
Cases evaluated	513	2,869
Creation date	04/11/2016	
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

 $http://www.tumorregister-muenchen.de/en/facts/surv/sC15_E-ICD-10-C15-Oesophagus-cancer-survival.pdf$

Survival

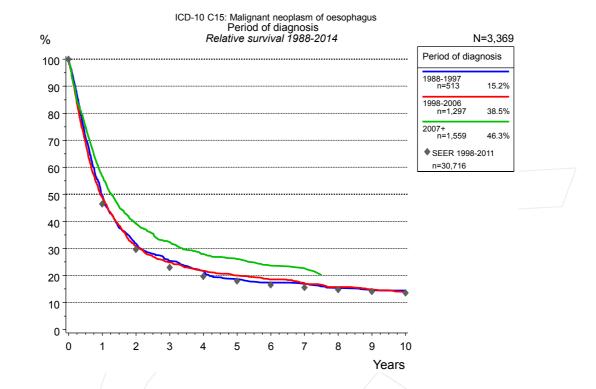


Figure 1a. Relative survival of patients with oesophagus cancer by period of diagnosis. Included in the evaluation are 3,369 cases diagnosed between 1988 and 2014.

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 2011, and are represented by gray 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 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.

	F	Period	of diag	gnosis	;	
	1988-	1997	1998-	2006	2007+	
	n=5	513	n=1,	,297	n=1,559	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	48.4	49.5	47.7	48.8	55.1	56.5
2	30.5	31.8	29.5	30.8	37.4	39.2
3	23.8	25.4	23.4	24.9	30.2	32.4
4	19.9	21.6	20.1	21.7	25.4	27.9
5	16.8	18.7	18.1	20.0	23.1	26.1
6	15.3	17.4	16.4	18.6	20.4	23.7
7	14.5	17.0	14.8	17.1	19.0	22.6
8	12.8	15.4	13.3	15.8		
9	12.0	14.7	12.3	14.9		
10	11.5	14.4	11.3	14.0		

Table 1b. Observed (obs.) and relative (rel.) survival of patients with oesophagus cancer by period of diagnosis for period 1988-2014 (N=3,369).

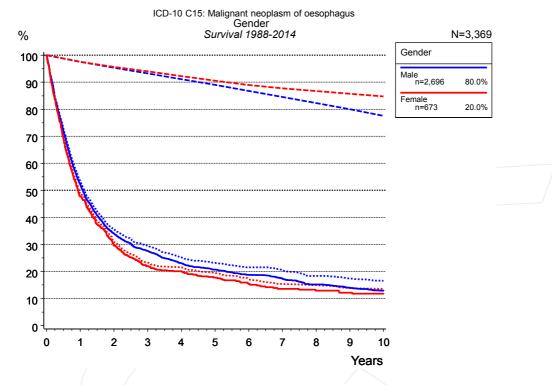


Figure 2a. Survival of patients with oesophagus cancer by gender. Included in the evaluation are 3,369 cases diagnosed between 1988 and 2014.

	C	Gende	r				
	Ma	ale	Female				
	n=2,	696	n=6	673			
Years	obs. %	rel. %	obs. %	rel. %			
0	100.0	100.0	100.0	100.0			
1	52.1	53.4	47.7	48.9			
2	34.1	35.7	29.6	30.9			
3	27.6	29.5	22.0	23.3			
4	23.0	25.2	20.1	21.5			
5	20.6	23.2	17.7	19.4			
6	18.7	21.6	15.4	17.2			
7	17.3	20.4	13.6	15.4			
8	15.2	18.4	12.9	14.9			
9	14.0	17.4	12.2	13.8			
10	12.9	16.6	11.8	13.6			

Table 2b. Observed (obs.) and relative (rel.) survival of patients with oesophagus cancer by gender for period 1988-2014 (N=3,369).



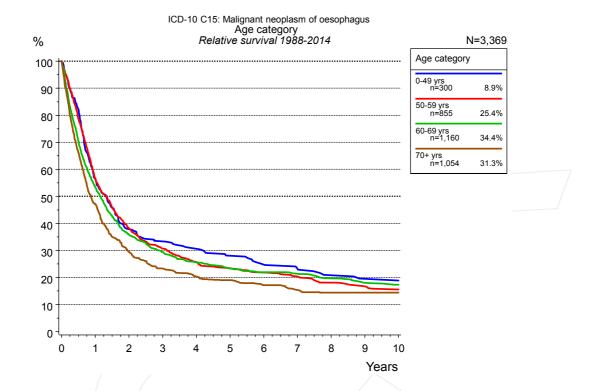


Figure 3a. Relative survival of patients with oesophagus cancer by age category. Included in the evaluation are 3,369 cases diagnosed between 1988 and 2014.

			Age	categ	ory				
	0-49) yrs	50-59	9 yrs	60-69	9 yrs	70+ yrs n=1,054		
	n=3	300	n=8	355	n=1,	160			
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	56.8	56.7	55.7	56.1	52.5	53.3	44.5	47.1	
2	37.8	37.8	37.7	38.2	34.8	35.8	26.5	29.4	
3	33.3	33.3	30.0	30.7	28.1	29.4	19.8	23.3	
4	30.4	30.6	24.9	25.7	24.0	25.6	16.4	20.4	
5	27.7	28.1	22.5	23.4	21.5	23.3	14.4	19.0	
6	24.6	24.7	20.9	21.9	19.7	22.0	12.0	17.1	
7	22.9	23.2	19.1	20.3	18.8	21.4	10.0	15.4	
8	20.4	20.8	16.9	18.1	16.8	19.6	8.9	14.4	
9	19.0	19.5	15.5	16.7	15.1	18.1	8.9	14.4	
10	19.0	18.8	14.2	15.6	14.1	17.3	8.1	14.4	

Table 3b. Observed (obs.) and relative (rel.) survival of patients with oesophagus cancer by age category for period 1988-2014 (N=3,369).



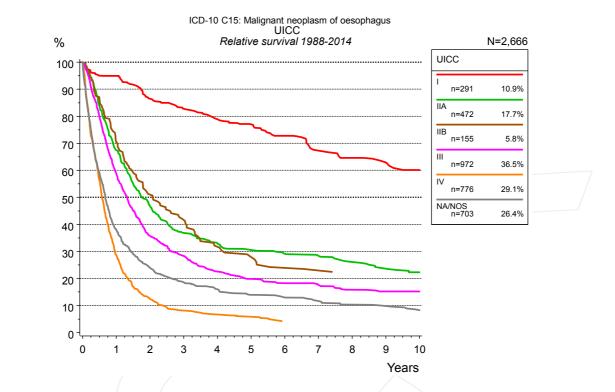


Figure 4a. Relative survival of patients with oesophagus cancer by UICC. For 2,769 of 3,369 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. For a total of 2,666 cases an evaluable classification was established. The grey line represents the subgroup of 703 patients with missing values regarding UICC (20.9% of 3,369 patients, the percent values of all other categories are related to n=2,666).

						UICC						
	- I		IL.	A	IIB		III		IV		NA/NOS	
	n=2	291	n=472		n=155		n=972		n=776		n=703	
Years	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	93.4	95.0	66.0	67.5	69.1	70.5	57.5	58.6	28.3	28.7	36.4	37.8
2	82.8	86.5	45.1	46.8	49.1	51.0	34.5	35.8	12.1	12.5	22.4	23.9
3	77.3	82.8	34.7	36.9	39.3	41.6	26.7	28.3	7.8	8.1	17.0	18.6
4	72.3	78.9	30.5	33.0	29.5	31.7	20.8	22.5	6.3	6.7	14.2	16.0
5	68.6	77.0	27.9	30.5	25.1	28.0	18.0	19.9	5.4	5.9	12.0	14.0
6	63.4	72.8	26.2	29.1	21.4	23.9	16.1	18.2	3.8	4.2	10.7	13.0
7	57.1	67.3	24.9	28.4	20.4	23.0	15.1	17.6			9.3	11.7
8	53.4	64.6	22.5	26.1			13.3	15.8			8.1	10.4
9	50.9	62.9	20.2	23.6			12.4	15.2			7.5	9.8
10	47.1	60.1	18.6	22.3			12.4	15.2			6.3	8.3

Table 4b. Observed (obs.) and relative (rel.) survival of patients with oesophagus cancer by UICC for period 1988-2014 (N=2,666).

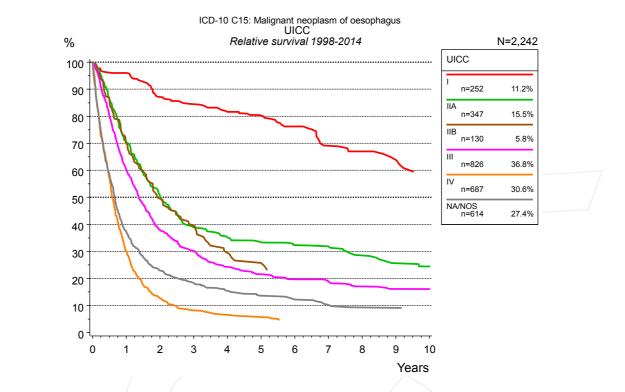


Figure 4c. Relative survival of patients with oesophagus cancer by UICC. For 2,332 of 2,856 cases diagnosed between 1998 and 2014 valid data could be obtained for this item. For a total of 2,242 cases an evaluable classification was established. The grey line represents the subgroup of 614 patients with missing values regarding UICC (21.5% of 2,856 patients, the percent values of all other categories are related to n=2,242).

lince												
						UICC						
			II.	A	III	В	II	1	IV		NA/N	IOS
	n=2	252	n=347		n=130		n=826		n=687		n=6	614
Years	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	94.4	96.0	69.0	70.4	68.5	69.9	59.0	60.3	29.5	30.0	35.7	37.1
2	83.4	87.2	48.9	50.6	47.6	49.5	36.6	38.0	12.3	12.7	21.4	22.9
3	78.9	84.5	36.9	38.9	37.5	39.5	28.4	30.2	7.8	8.2	16.8	18.4
4	74.9	81.7	32.7	35.2	27.4	29.4	22.5	24.3	6.2	6.5	13.7	15.4
5	71.5	80.3	30.9	33.4	23.0	25.7	19.6	21.6	5.3	5.7	11.7	13.6
6	66.5	76.2	29.1	32.4	20.7	22.9	17.5	19.7			10.0	12.2
7	58.5	69.1	28.2	31.8	20.7	22.5	16.2	18.8			8.1	10.2
8	55.6	67.0	25.1	28.5			14.3	17.0			7.3	9.3
9	52.1	63.9	22.0	25.6			13.2	16.1			7.3	9.1
10	46.8	59.5	20.6	24.4			13.2	16.1				

Table 4d. Observed (obs.) and relative (rel.) survival of patients with oesophagus cancer by UICC for period 1998-2014 (N=2,242).

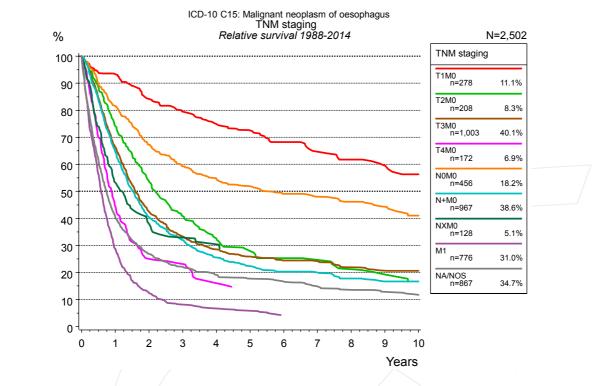


Figure 4e. Relative survival of patients with oesophagus cancer by TNM staging. For 2,769 of 3,369 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. For a total of 2,502 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 867 patients with missing values regarding TNM staging (25.7 % of 3,369 patients, the percent values of all other categories are related to n=2,502).

	TNM staging													
	T1M0 T2M0		T3M0 T4M0			M0	N0M0		N+M0		NXM0			
	n=2	278	n=2	208	n=1,	003	n=1	72	n=456		n=967		n=128	
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	91.6	93.4	72.6	74.1	65.1	66.4	43.7	44.3	80.1	81.6	63.3	64.6	52.2	53.3
2	80.8	84.2	51.6	53.6	41.0	42.5	24.4	25.0	64.7	67.3	39.0	40.5	36.8	37.9
3	74.6	79.5	38.3	40.8	31.4	33.3	22.4	23.1	55.8	59.3	30.1	32.0	31.2	32.9
4	69.1	74.9	29.7	32.6	26.4	28.5	15.2	16.1	50.4	54.8	23.5	25.5	29.0	30.4
5	65.1	72.5	24.9	27.9	23.5	25.9	13.6	14.2	46.8	51.9	20.1	22.3		
6	60.2	68.2	22.4	25.3	21.6	24.4			43.2	49.1	17.9	20.3		
7	55.6	64.7	21.0	24.6	20.9	24.1			41.4	48.0	17.1	20.0		
8	51.8	61.8	18.0	21.2	18.6	21.9			38.9	46.1	14.9	17.8		
9	49.0	59.5	15.6	19.2	17.3	20.7			36.5	44.3	13.5	16.7		
10	44.9	56.3	13.1	16.6	17.0	20.6			32.9	41.0	13.5	16.7		

	TNM staging									
cont'a	/ N	11	NA/	NOS						
	n=7	776	n=8	367						
Years	obs. %	rel. %	obs. %	rel. %						
0	100.0	100.0	100.0	100.0						
1	28.3	28.7	38.9	40.3						
2	12.1	12.5	25.3	26.9						
3	7.8	8.1	20.2	22.1						
4	6.3	6.7	17.0	19.1						
5	5.4	5.9	15.4	17.7						
6	3.8	4.2	14.0	16.6						
7			12.1	14.9						
8			10.7	13.6						
9			10.0	12.8						
10			8.9	11.7						

Table 4f. Observed (obs.) and relative (rel.) survival of patients with oesophagus cancer by TNM staging for period 1988-2014 (N=2,502).



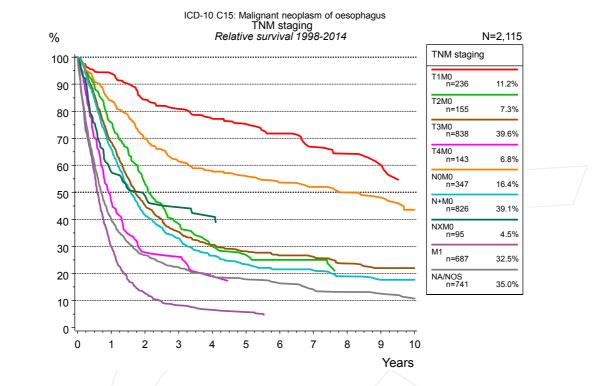


Figure 4g. Relative survival of patients with oesophagus cancer by TNM staging. For 2,332 of 2,856 cases diagnosed between 1998 and 2014 valid data could be obtained for this item. For a total of 2,115 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potientially considered in more than one subgroup. The grey line represents the subgroup of 741 patients with missing values regarding TNM staging (25.9% of 2,856 patients, the percent values of all other categories are related to n=2,115).

							V stag	-						
	T1M0 T2M0		M0	T3I	M0	T4I	T4M0		NOMO		N+M0		M0	
	n=2	236	n=1	155	n=8	338	n=1	43	n=347		n=826		n=95	
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	92.2	94.0	74.3	75.8	67.2	68.6	46.0	46.6	82.5	84.0	64.6	66.0	56.7	57.7
2	80.8	84.3	51.3	53.1	43.7	45.3	27.2	27.8	67.2	69.9	40.1	41.7	47.5	48.7
3	75.8	80.9	36.2	38.3	33.4	35.4	25.6	26.2	57.9	61.4	31.0	32.9	42.4	44.5
4	71.3	77.3	27.5	30.1	28.4	30.6	18.0	18.9	53.5	57.9	24.6	26.6	39.4	41.1
5	67.5	75.3	24.0	26.8	25.7	28.2	16.1	16.7	50.7	56.0	21.0	23.4		
6	63.3	71.8	22.2	25.0	23.6	26.7			47.4	53.6	18.9	21.6		
7	57.3	66.8	22.2	25.0	22.7	26.2			45.1	52.0	18.1	21.2		
8	54.1	64.3	17.6	20.8	20.2	23.7			42.4	50.0	15.9	19.0		
9	50.0	60.1			18.4	22.0			40.0	48.0	14.3	17.7		
10	43.7	54.5			18.4	22.0			35.1	43.6	14.3	17.7		

	TNM staging									
cont'd	Μ	-	NA/N	NOS						
	n=6	687	n=7	741						
Years	obs. %	rel. %	obs. %	rel. %						
0	100.0	100.0	100.0	100.0						
1	29.5	30.0	38.3	39.8						
2	12.3	12.7	25.0	26.7						
3	7.8	8.2	20.4	22.3						
4	6.2	6.5	16.9	19.1						
5	5.3	5.7	15.5	17.9						
6			13.7	16.4						
7			11.4	14.1						
8			10.5	13.2						
9			9.7	12.5						
10			8.1	10.7						

Table 4h. Observed (obs.) and relative (rel.) survival of patients with oesophagus cancer by TNM staging for period 1998-2014 (N=2,115).



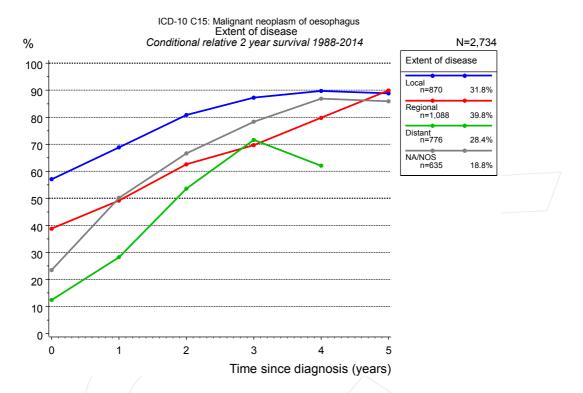


Figure 4i. Conditional relative 2-year survival of patients with oesophagus cancer by extent of disease. For 2,769 of 3,369 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. For a total of 2,734 cases an evaluable classification was established. The grey line represents the subgroup of 635 patients with missing values regarding extent of disease (18.8% of 3,369 patients, the percent values of all other categories are related to n=2,734).

				Exten	t of dis	sease			
		Loc	al	Regio	onal	Dista	ant	NA/NOS	
		Cond.			Cond.		Cond.		Cond.
			surv. %		surv. %		surv. %		surv. %
	Years	n	2 yrs	n	2 yrs	n	2 yrs	n	2 yrs
	0	870	57.1	1,088	38.8	776	12.5	635	23.5
	1	605	68.9	632	49.2	210	28.3	213	50.2
	2	441	80.9	358	62.6	84	53.6	124	66.6
	3	353	87.2	249	69.7	45	71.6	90	78.4
	4	299	89.8	174	79.8	35	62.1	64	86.9
	5	246	88.9	135	89.9			53	85.9

Table 4j. Conditional relative 2-year survival of patients with oesophagus cancer by extent of disease for period 1988-2014 (N=2,734).

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 4g). 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 87.2% (n=353).

ICD-10 C15: Malignant neoplasm of oesophagus

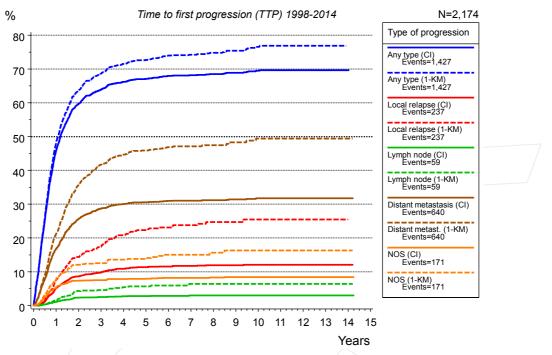


Figure 5a. Time to first progression of 2,174 patients with oesophagus cancer diagnosed between 1998 and 2014 (M0 only in solid cancers) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

			Type of	f progressioı	า		
	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=2,174	n=2,174	n=2,174	n=2,174	n=2,174	n=2,174	n=2,174
Years	%	%	%	%	%	%	%
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	45.8	48.1	5.2	7.6	1.2	1.7	16.8
2	59.7	63.6	8.6	14.4	2.4	4.3	25.6
3	63.9	68.6	9.8	17.4	2.5	4.6	28.7
4	66.2	71.5	10.9	20.8	2.7	5.4	30.1
5	67.1	72.7	11.3	22.3	2.8	5.7	30.6
6	68.0	74.0	11.6	23.1	2.9	6.0	31.0
7	68.2	74.2	11.7	23.8	3.0	6.4	31.1
8	68.5	74.8	11.9	24.7	3.0	6.4	31.2
9	68.9	75.4	11.9	24.7	3.0	6.4	31.4
10	69.5	76.5	12.1	25.5	3.0	6.4	31.8
11	69.6	76.9	12.1	25.5	3.0	6.4	31.8
12	69.6	76.9	12.1	25.5	3.0	6.4	31.8
13	69.6	76.9	12.1	25.5	3.0	6.4	31.8
14	69.6	76.9	12.1	25.5	3.0	6.4	31.8
15			12.1	25.5	3.0	6.4	31.8

	Type o f Distant	f progressio	า
cont'd	metast. (1- KM)	NOS (CI)	NOS (1-KM)
	n=2,174	n=2,174	n=2,174
Years	%	%	%
0	0.0	0.0	0.0
1	21.1	5.4	7.8
2	35.7	7.4	12.1
3	41.7	7.5	12.6
4	44.7	7.8	13.6
5	45.9	8.0	14.1
6	46.9	8.2	15.0
7	47.1	8.2	15.0
8	47.4	8.3	15.6
9	48.3	8.4	16.3
10	49.4	8.4	16.3
11	49.4	8.4	16.3
12	49.4	8.4	16.3
13	49.4	8.4	16.3
14	49.4	8.4	16.3
15	49.4	8.4	16.3

Table 5b. Time to first progression of patients with oesophagus cancer for period 1998-2014 (N=2,174).

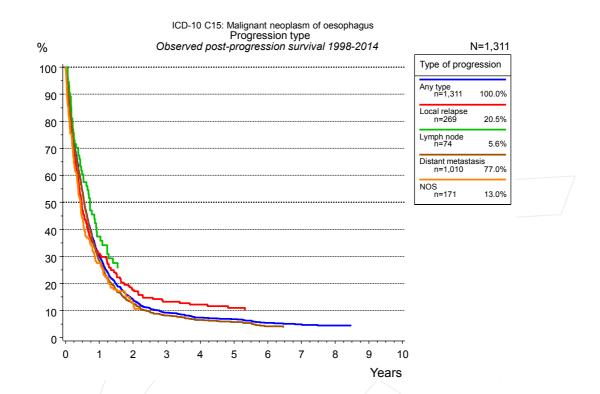


Figure 5c. Observed post-progression survival of 1,311 patients with oesophagus cancer diagnosed between 1998 and 2014. These 1,311 patients with documented progression events during their course of disease represent 46.0% of the totally 2,848 evaluated cases (incl. M1, n=674, 23.7%). Patients with cancer relapse documented via death certificates only were excluded (n=790, 27.7%). 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.

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=1,311	Local relapse n=269	Lymph node n=74	Distant metastasis n=1,010	NOS n=171
Years	%	%	%	%	%
0	100.0	100.0	100.0	100.0	100.0
1	30.3	31.1	37.4	28.5	27.5
2	14.1	17.6		12.7	12.5
3	9.2	13.3		8.2	
4	7.4	12.2		6.5	
5	6.8	11.0		5.8	
6	5.4			4.2	
7	4.9				
8	4.5				
	0 1 2 3 4 5 6 7	n=1,311 Years % 0 100.0 1 30.3 2 14.1 3 9.2 4 7.4 5 6.8 6 5.4 7 4.9	Any type n=1,311Local relapse n=269Years%%0100.0100.0130.331.1214.117.639.213.347.412.256.811.065.4774.914.9	Any type n=1,311 Local relapse n=269 Lymph node n=74 Years % % 0 100.0 100.0 100.0 1 30.3 31.1 37.4 2 14.1 17.6	Any type n=1,311 Local relapse n=269 Lymph node n=74 Distant metastasis n=1,010 Years % % % 0 100.0 100.0 100.0 1 30.3 31.1 37.4 28.5 2 14.1 17.6 12.7 3 9.2 13.3 8.2 4 7.4 12.2 6.5 5 6.8 11.0 5.8 6 5.4 4.2 4.2 7 4.9 5.4 5.8

Table 5d. Observed post-progression survival of patients with oesophagus cancer for period 1998-2014 (N=1,311).

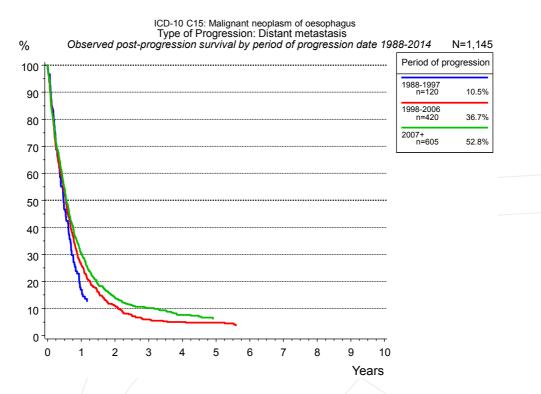


Figure 5e. Observed post-progression (distant metastasis) survival of 1,145 patients with oesophagus cancer diagnosed between 1988 and 2014 by period of progression.

Period of progression					
	1988-1997	1998-2006	2007+		
	n=120	n=420	n=605		
Years	%	%	%		
0	100.0	100.0	100.0		
1	17.0	26.3	30.4		
2		11.0	14.0		
3		6.0	10.1		
4		5.0	7.6		
5		4.8	6.2		

Table 5f. Observed post-progression (distant metastasis) survival of patients with oesophagus cancer for period 1988-2014 by period of progression (N=1,145).



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			
	rine to progression	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			

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