

Munich Cancer Registry



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

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

Cancer statistics: Survival

C16: Stomach cancer

Year of diagnosis	1978-1987	1988-1997	1998-2011
Patients	1,122	2,554	9,892
Diseases	1,122	2,556	9,899
Creation date	04/01/2013		
Export date	01/03/2013		
Population	4.5 m		



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C16__E.pdf

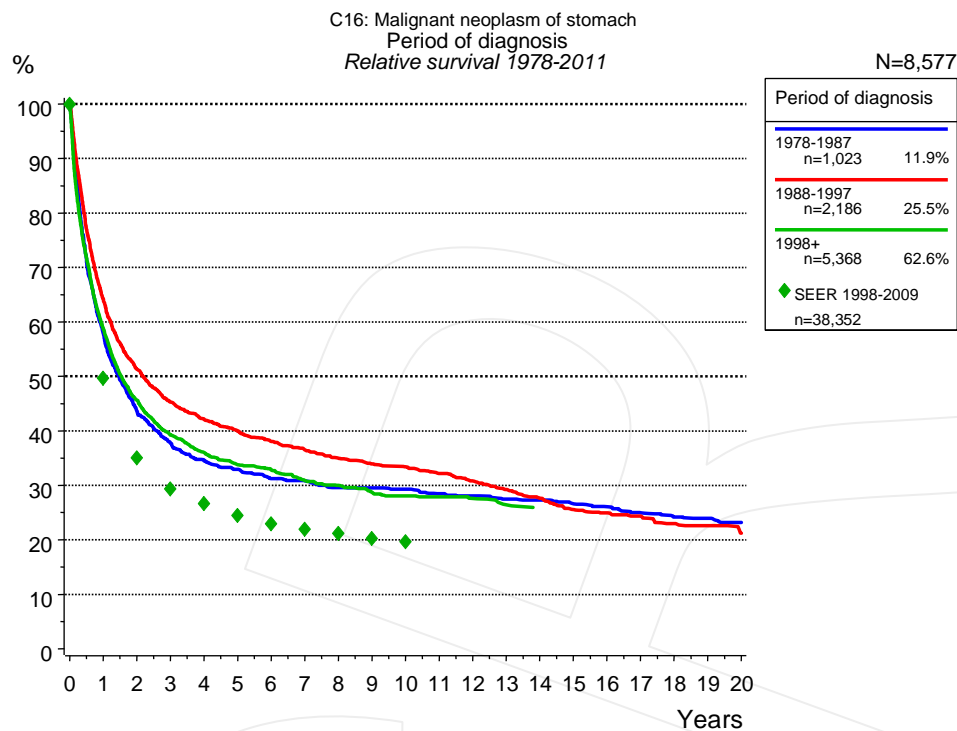


Figure 1a. Relative survival of patients with stomach cancer by period of diagnosis. Included in the evaluation are 8,577 cases diagnosed between 1978 and 2011.

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 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.

Years	Period of diagnosis					
	1978-1987		1988-1997		1998+	
	n=1,023		n=2,186		n=5,368	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	56.2	58.0	61.5	64.0	56.1	58.8
2	41.1	43.6	47.6	51.3	42.1	45.6
3	34.5	37.7	40.6	45.2	34.9	39.2
4	30.7	34.6	36.6	42.1	31.0	36.0
5	28.6	32.9	33.6	39.9	28.1	33.8
6	26.2	31.2	31.0	38.0	26.3	32.8
7	25.2	30.8	28.8	36.5	23.8	30.9
8	23.5	29.6	26.6	35.0	22.4	30.0
9	22.9	29.5	25.0	33.9	20.7	28.7
10	21.8	29.3	23.9	33.4	19.8	28.0
11	20.4	28.5	22.2	32.2	18.8	27.9
12	19.6	28.0	20.6	30.8	18.0	27.6
13	18.4	27.5	18.9	29.2	16.7	26.4
14	17.7	27.3	17.2	27.6		
15	16.6	26.6	15.5	25.6		
16	15.8	26.1	14.7	25.0		
17	14.5	25.0	13.9	24.4		
18	13.5	24.2	12.7	22.9		
19	13.1	24.0	12.2	22.6		
20	12.2	23.2	10.8	21.2		

Table 1b. Observed (obs.) and relative (rel.) survival of patients with stomach cancer by period of diagnosis for period 1978-2011 (N=8,577).

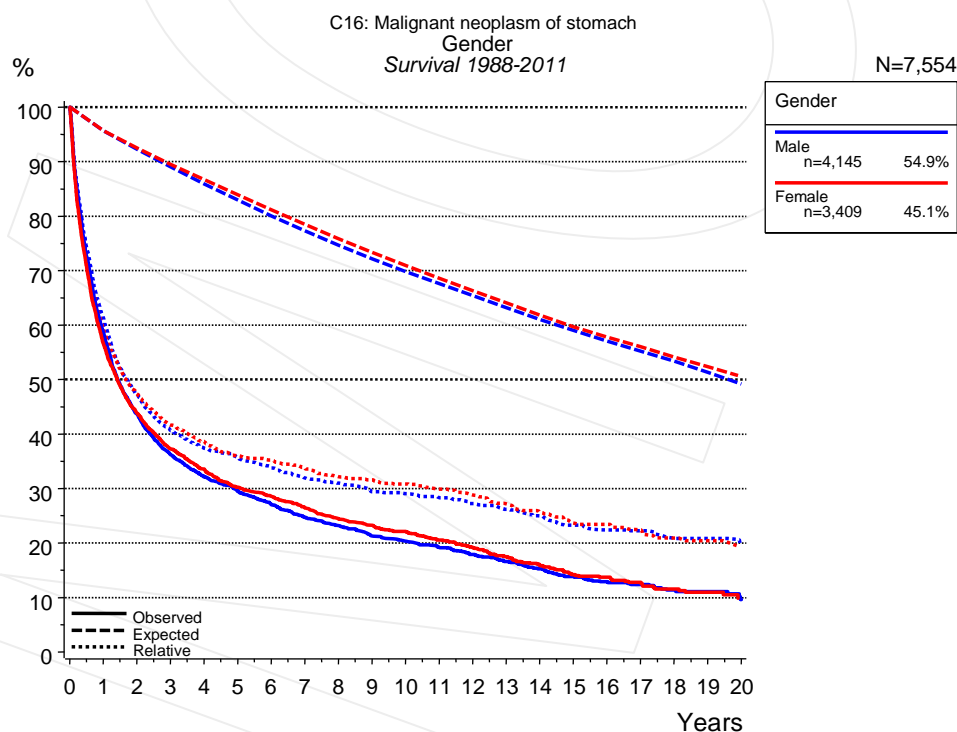


Figure 2a. Survival of patients with stomach cancer by gender. Included in the evaluation are 7,554 cases diagnosed between 1988 and 2011.

Years	Gender			
	Male n=4,145		Female n=3,409	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	58.6	61.3	56.5	59.1
2	43.7	47.3	43.8	47.4
3	36.2	40.6	37.2	41.6
4	32.1	37.4	33.6	38.6
5	29.5	35.6	30.2	36.0
6	27.1	33.8	28.5	35.1
7	24.7	31.9	26.4	33.7
8	23.2	31.0	24.4	32.2
9	21.2	29.4	23.3	31.6
10	20.3	29.1	22.1	30.8
11	19.2	28.3	20.5	29.9
12	17.9	27.3	19.1	28.8
13	16.6	26.2	17.5	27.2
14	15.3	25.0	15.9	25.6
15	13.8	23.2	14.2	23.6
16	12.9	22.4	13.7	23.4
17	12.4	22.2	12.8	22.4
18	11.4	20.9	11.6	20.9
19	11.1	20.8	10.9	20.4
20	9.6	19.5	9.9	19.4

Table 2b. Observed (obs.) and relative (rel.) survival of patients with stomach cancer by gender for period 1988-2011 (N=7,554).

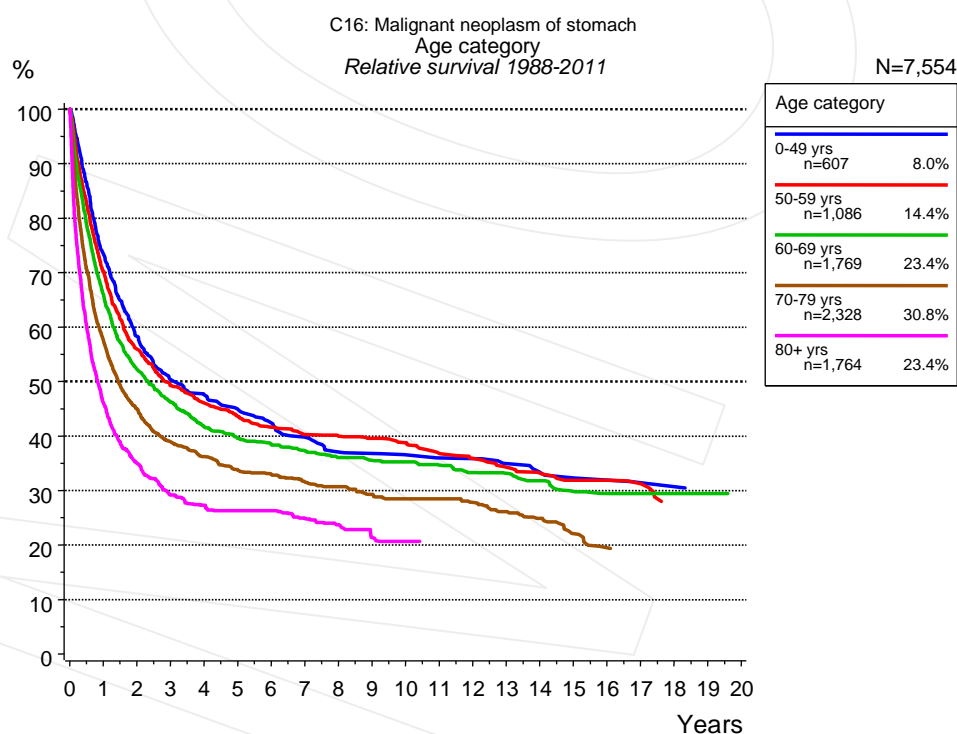


Figure 3a. Relative survival of patients with stomach cancer by age category. Included in the evaluation are 7,554 cases diagnosed between 1988 and 2011.

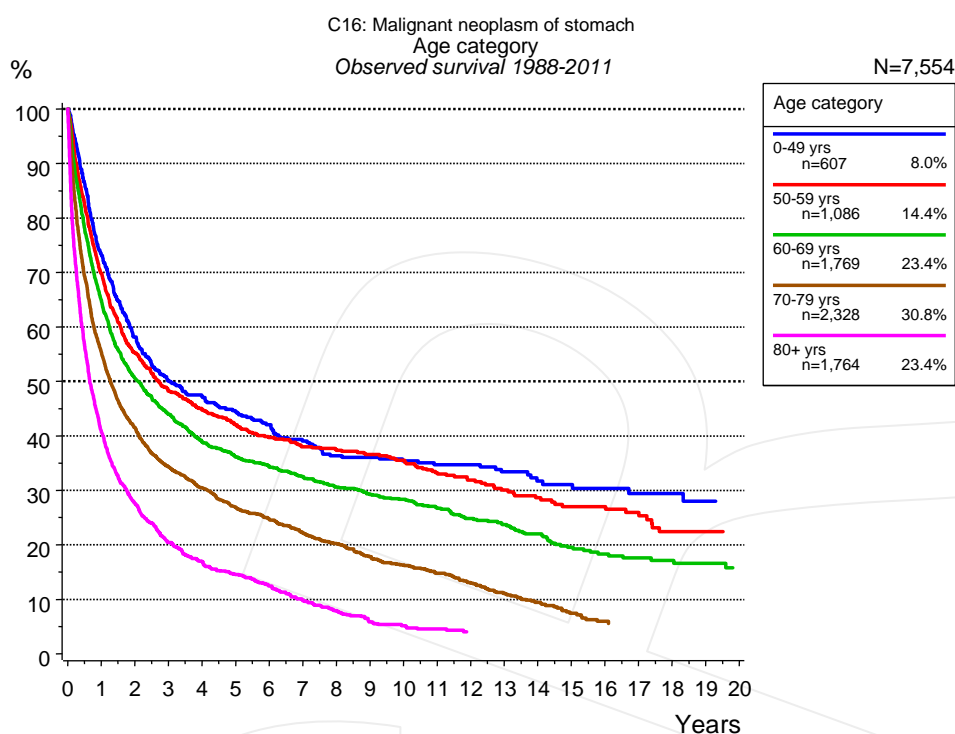


Figure 3b. Observed survival of patients with stomach cancer by age category. Included in the evaluation are 7,554 cases diagnosed between 1988 and 2011.

Years	Age category									
	0-49 yrs n=607		50-59 yrs n=1,086		60-69 yrs n=1,769		70-79 yrs n=2,328		80+ yrs n=1,764	
	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	73.2	73.4	69.8	70.2	64.8	65.8	55.2	57.4	40.8	46.0
2	58.1	58.3	55.2	55.9	50.6	52.2	41.4	45.0	27.6	35.0
3	50.0	50.4	48.2	49.3	44.0	46.2	34.3	38.9	20.4	29.2
4	47.3	47.6	44.8	46.1	38.9	41.7	30.5	36.2	16.9	27.3
5	44.4	44.9	42.0	43.6	36.1	39.6	26.8	33.7	14.5	26.3
6	42.1	42.4	39.7	41.6	34.3	38.4	24.7	32.9	12.4	26.3
7	39.0	39.8	38.0	40.3	32.5	37.3	22.2	31.6	9.8	24.8
8	36.4	37.1	37.3	40.0	30.6	36.0	20.3	30.7	7.9	23.7
9	36.1	36.8	36.6	39.6	29.3	35.5	17.9	29.3	5.9	21.4
10	35.4	36.5	35.5	38.8	28.3	35.2	16.3	28.5	5.2	20.7
11	34.7	36.0	33.2	36.8	26.7	34.6	14.8	28.5		
12	34.7	35.8	31.9	35.9	24.9	33.3	13.0	27.8		
13	33.4	35.0	30.0	34.3	23.7	33.1	11.1	26.1		
14	31.7	33.3	28.6	33.2	22.0	31.7	9.5	24.9		
15	31.1	32.3	27.0	31.9	19.5	29.8	7.4	22.1		
16	30.4	31.9	27.0	31.9	18.3	29.4	6.0	19.5		
17	29.4	31.4	26.0	31.2	17.6	29.4				
18	29.4	30.7	22.4	28.0	17.1	29.4				
19			22.4	27.8	16.6	29.4				
20			22.4	27.6						

Table 3c. Observed (obs.) and relative (rel.) survival of patients with stomach cancer by age category for period 1988-2011 (N=7,554).

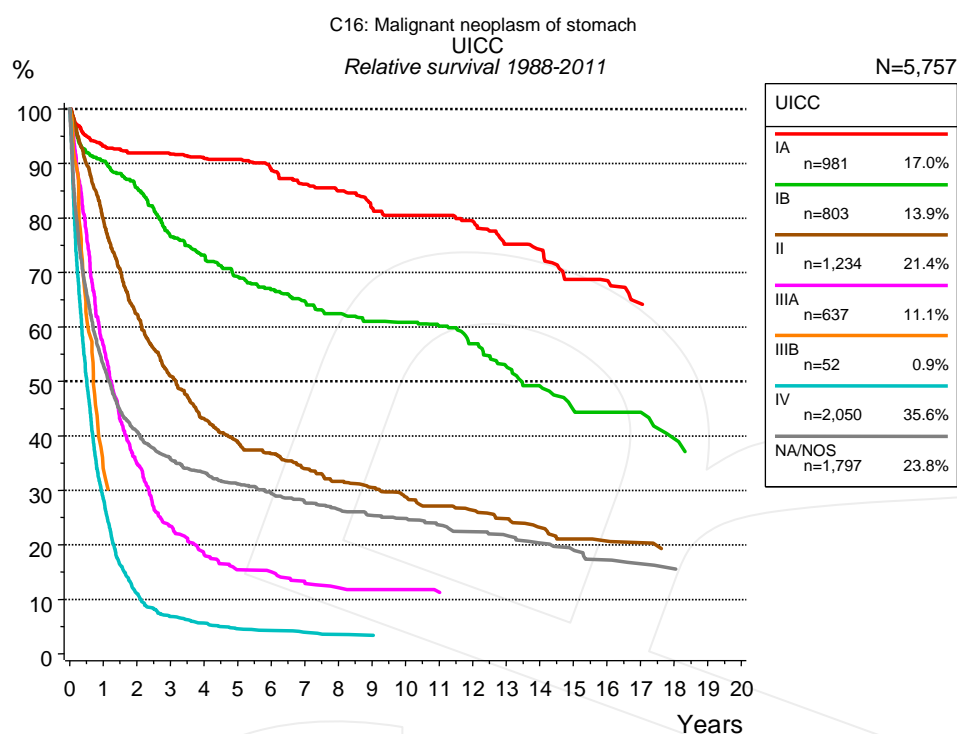


Figure 4a. Relative survival of patients with stomach cancer by UICC. For 6,201 of 7,554 cases diagnosed between 1988 and 2011 valid data could be obtained for this item. For a total of 5,757 cases an evaluable classification was established. The grey line represents the subgroup of 1,797 patients with missing values regarding UICC (23.8% of 7,554 patients, the percent values of all other categories are related to n=5,757).

		UICC															
		IA n=981		IB n=803		II n=1,234		IIIA n=637		IIIB n=52		IV n=2,050		NA/NOS n=1,797			
Years		obs. %	rel. %	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	100.0	100.0
1		90.1	93.2	86.9	90.4	76.9	79.7	54.2	56.6	32.7	33.8	27.5	28.5	49.5	52.9		
2		86.3	91.9	79.2	85.5	58.2	62.3	32.2	34.9			10.4	11.0	36.6	40.8		
3		83.0	91.7	68.1	76.6	46.1	50.9	20.9	23.4			6.4	6.9	30.8	35.7		
4		79.6	90.9	62.7	73.2	37.9	43.2	15.8	18.2			5.1	5.6	27.7	33.3		
5		77.1	90.8	56.7	69.2	32.9	38.8	12.8	15.5			4.1	4.6	25.2	31.1		
6		72.9	88.7	52.5	66.8	30.2	36.8	12.3	15.0			3.8	4.3	23.0	29.4		
7		68.4	86.2	48.8	64.7	26.9	34.0	10.2	13.0			3.4	3.9	21.1	27.8		
8		65.2	85.0	45.4	62.4	24.3	31.6	9.0	12.1			3.0	3.5	19.7	26.5		
9		60.9	81.8	42.4	61.0	22.5	30.5	8.7	11.8			2.9	3.4	18.3	25.4		
10		59.0	80.5	40.8	60.9	20.6	28.8	8.7	11.8			2.7	3.2	17.4	24.8		
11		56.5	80.5	38.4	60.1	18.8	27.1	7.8	11.3					16.1	23.7		
12		54.0	79.3	35.0	56.9	17.7	26.4							14.7	22.4		
13		49.5	75.1	31.2	52.8	16.2	24.8							14.0	21.7		
14		47.4	74.2	27.8	49.1	14.6	23.2							12.6	20.4		
15		42.7	68.7	24.5	44.7	12.9	21.1							11.7	19.1		
16		41.6	68.5	23.2	44.3	12.5	20.7							10.3	17.3		
17		38.1	64.3	23.2	44.3	12.0	20.4							9.5	16.5		
18		37.2	64.1	19.5	39.5	10.8	18.9							8.9	15.6		
19		37.2	64.1	17.5	36.7	10.8	17.9							8.4	14.9		
20		37.2	64.1														

Table 4b. Observed (obs.) and relative (rel.) survival of patients with stomach cancer by UICC for period 1988-2011 (N=5,757).

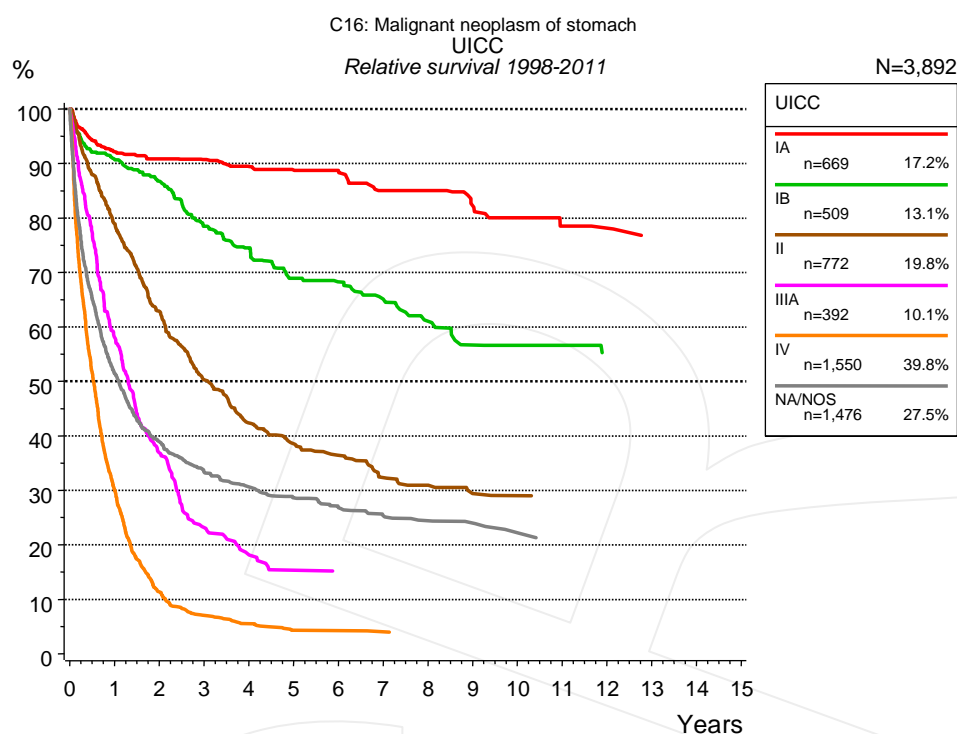


Figure 4c. Relative survival of patients with stomach cancer by UICC. For 4,266 of 5,368 cases diagnosed between 1998 and 2011 valid data could be obtained for this item. For a total of 3,892 cases an evaluable classification was established. The grey line represents the subgroup of 1,476 patients with missing values regarding UICC (27.5% of 5,368 patients, the percent values of all other categories are related to n=3,892).

Years	UICC											
	IA n=669		IB n=509		II n=772		IIIA n=392		IV n=1,550		NA/NOS n=1,476	
	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	88.9	92.2	87.0	90.7	76.4	78.9	55.6	58.0	29.0	30.0	48.1	51.4
2	85.0	90.9	80.1	86.7	58.8	62.8	34.0	36.9	10.7	11.3	34.9	38.9
3	81.6	90.7	69.4	78.5	45.7	50.3	20.7	23.1	6.6	7.0	28.8	33.4
4	77.8	89.4	63.3	74.5	37.3	42.4	16.0	18.1	5.1	5.5	25.5	30.6
5	74.5	88.8	55.8	68.9	32.9	38.5	13.1	15.3	3.9	4.3	23.2	28.6
6	71.5	88.4	52.6	68.3	30.1	36.4	12.2	14.2	3.9	4.3	21.1	26.8
7	66.3	85.0	47.6	65.1	25.9	32.3			3.7	4.0	19.4	25.3
8	64.5	85.0	42.6	61.0	24.2	30.9					18.4	24.4
9	60.0	82.2	37.7	56.6	21.9	29.4					17.7	24.0
10	57.3	80.0	36.6	56.6	21.3	29.0					16.2	22.2
11	53.3	78.5	36.6	56.6	20.7	28.8					14.8	21.0
12	52.0	78.1	31.3	55.2	20.7	28.6					14.8	20.4
13			31.3	54.1								

Table 4d. Observed (obs.) and relative (rel.) survival of patients with stomach cancer by UICC for period 1998-2011 (N=3,892).

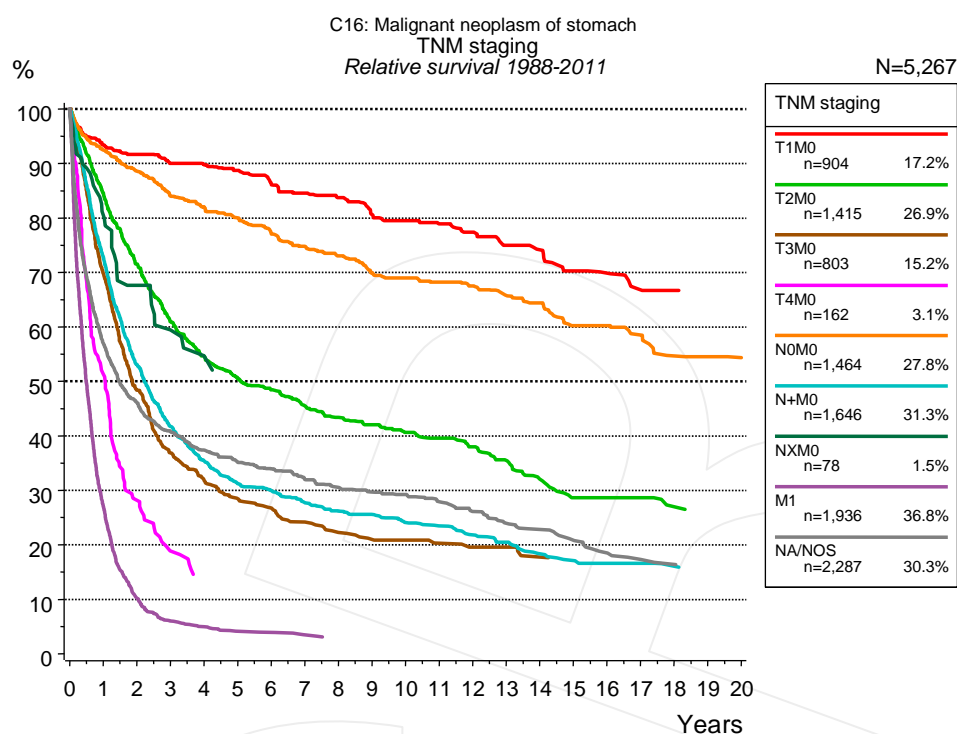


Figure 4e. Relative survival of patients with stomach cancer by TNM staging. For 6,201 of 7,554 cases diagnosed between 1988 and 2011 valid data could be obtained for this item. For a total of 5,267 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 2,287 patients with missing values regarding TNM staging (30.3% of 7,554 patients, the percent values of all other categories are related to n=5,267).

		TNM staging													
		T1M0 n=904		T2M0 n=1,415		T3M0 n=803		T4M0 n=162		N0M0 n=1,464		N+M0 n=1,646		NXM0 n=78	
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		90.5	93.5	81.4	84.4	67.3	69.7	49.6	51.3	89.3	92.5	70.2	72.7	77.7	80.3
2		86.2	91.7	66.7	71.5	45.3	48.4	26.7	28.1	82.8	88.6	49.6	53.0	62.6	67.6
3		81.8	90.0	54.9	61.0	33.6	36.9	17.1	18.9	75.9	84.0	37.9	41.7	52.0	59.4
4		79.1	89.8	47.6	54.6	28.3	31.8	12.8	14.0	71.7	82.0	31.3	35.4	45.6	54.7
5		75.8	88.7	42.3	50.5	24.6	28.5			67.5	80.0	26.7	31.2	42.9	52.0
6		71.4	86.2	39.2	48.5	22.7	26.8			63.0	77.1	24.9	30.0		
7		67.8	84.6	35.4	45.5	20.0	24.2			59.0	74.8	22.4	27.8		
8		64.9	83.7	32.6	43.4	17.7	22.3			55.7	73.1	20.5	26.2		
9		60.6	80.6	30.5	42.1	16.4	21.0			51.5	69.9	19.3	25.6		
10		58.8	79.5	28.2	40.6	16.1	20.9			49.9	69.0	17.6	24.1		
11		55.9	78.9	26.6	39.6	14.8	20.3			47.1	68.2	16.5	23.5		
12		53.6	77.4	24.5	38.0	13.7	19.5			45.2	67.5	15.0	21.8		
13		50.0	75.0	22.1	35.5	13.7	19.5			42.4	65.8	13.6	20.5		
14		48.0	74.1	19.1	32.0	12.0	17.7			40.1	64.4	11.7	18.3		
15		44.2	70.3	16.5	28.7					36.1	60.2	10.8	17.1		
16		42.6	69.9	16.5	28.7					35.4	60.2	10.2	16.6		
17		39.9	66.8	16.5	28.7					33.3	58.5	10.2	16.6		
18		39.0	66.7	14.3	27.0					29.9	54.7	9.3	16.1		
19		37.9	66.7	13.6	26.5					29.2	54.6	8.8	15.4		
20				13.6	26.5					27.9	54.4				

cont'd Years	TNM staging			
	M1 n=1,936		NA/NOS n=2,287	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	26.0	26.9	53.4	57.0
2	9.6	10.2	41.3	46.1
3	5.6	6.0	35.0	40.7
4	4.5	5.0	30.9	37.4
5	3.7	4.2	27.9	35.2
6	3.5	3.9	25.9	34.0
7	3.0	3.5	23.5	32.0
8	2.7	3.1	21.6	30.5
9	2.7	3.0	20.3	29.7
10			19.4	29.2
11			17.9	27.9
12			16.1	26.1
13			14.4	23.9
14			13.2	22.8
15			11.8	20.8
16			10.2	18.5
17			9.3	17.4
18			8.6	16.4
19			8.2	16.2

Table 4f. Observed (obs.) and relative (rel.) survival of patients with stomach cancer by TNM staging for period 1988-2011 (N=8,408).

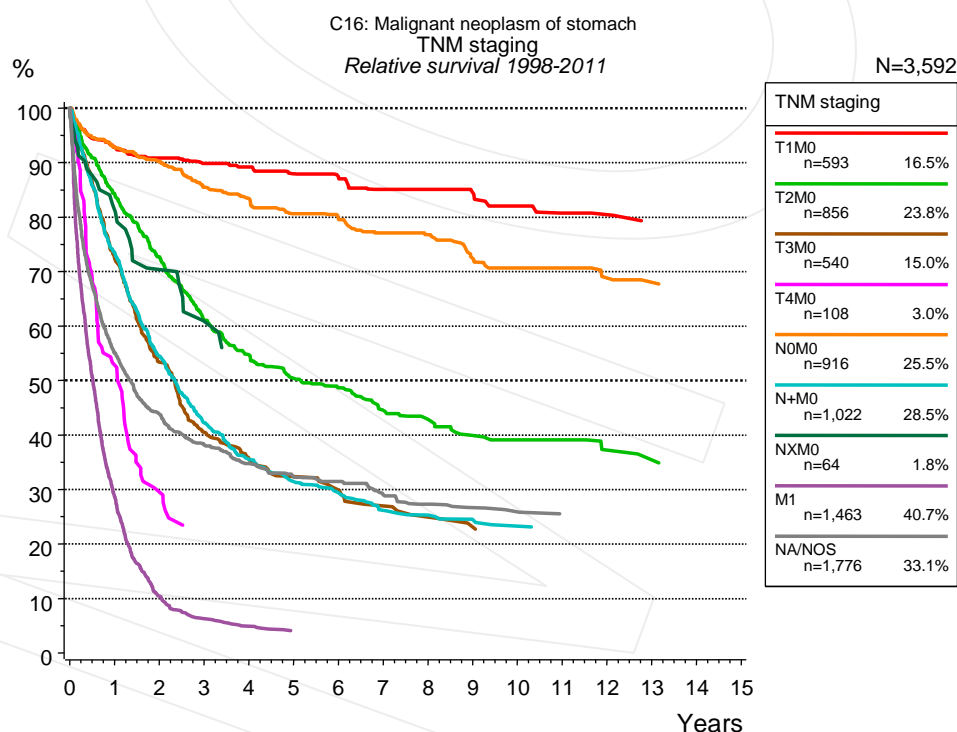


Figure 4g. Relative survival of patients with stomach cancer by TNM staging. For 4,266 of 5,368 cases diagnosed between 1998 and 2011 valid data could be obtained for this item. For a total of 3,592 cases an evaluable classification was established. The accumulated percentage exceeds the 100% value because patients are potentially considered in more than one subgroup. The grey line represents the subgroup of 1,776 patients with missing values regarding TNM staging (33.1% of 5,368 patients, the percent values of all other categories are related to n=3,592).

TNM staging															
	T1M0 n=593		T2M0 n=856		T3M0 n=540		T4M0 n=108		N0M0 n=916		N+M0 n=1,022		NXM0 n=64		
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	89.7	92.8	81.3	84.3	70.0	72.4	51.5	52.8	89.5	92.8	71.0	73.4	79.2	81.3	
2	85.0	90.8	67.7	72.7	50.3	53.3	28.3	29.5	84.1	90.2	51.1	54.5	65.8	70.4	
3	81.2	89.9	55.0	61.1	37.3	40.5			76.9	85.4	38.6	42.2	54.1	60.8	
4	78.2	89.2	47.5	54.7	32.2	35.5			72.5	83.4	31.6	35.5			
5	74.1	87.9	42.1	50.4	28.8	32.4			67.5	80.6	27.1	31.4			
6	71.0	87.1	39.1	48.7	26.2	29.9			64.3	79.6	24.7	29.4			
7	67.0	85.1	34.4	44.6	23.2	27.0			60.0	77.1	21.4	26.2			
8	65.6	85.1	32.1	42.9	21.0	24.9			57.5	76.8	20.3	25.3			
9	61.8	84.4	28.5	39.9	19.2	23.1			52.2	72.4	18.8	24.4			
10	58.9	82.0	27.5	39.1					50.0	70.6	17.8	23.3			
11	54.7	80.7	26.8	39.1					47.6	70.6	17.0	22.8			
12	53.4	80.4	23.9	37.2					44.4	68.8	17.0	22.4			
13			22.7	35.4					42.5	68.0					

TNM staging				
Years	M1 n=1,463		NA/NOS n=1,776	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	27.7	28.7	51.5	55.0
2	9.8	10.4	39.2	43.8
3	5.8	6.3	32.7	38.2
4	4.5	4.9	28.5	34.8
5	3.7	4.1	25.5	32.3
6	3.7	4.0	23.9	31.5
7			21.1	29.0
8			19.2	27.3
9			18.1	26.7
10			17.2	25.9
11			16.1	25.5
12			16.1	25.0

Table 4h. Observed (obs.) and relative (rel.) survival of patients with stomach cancer by TNM staging for period 1998-2011 (N=5,562).

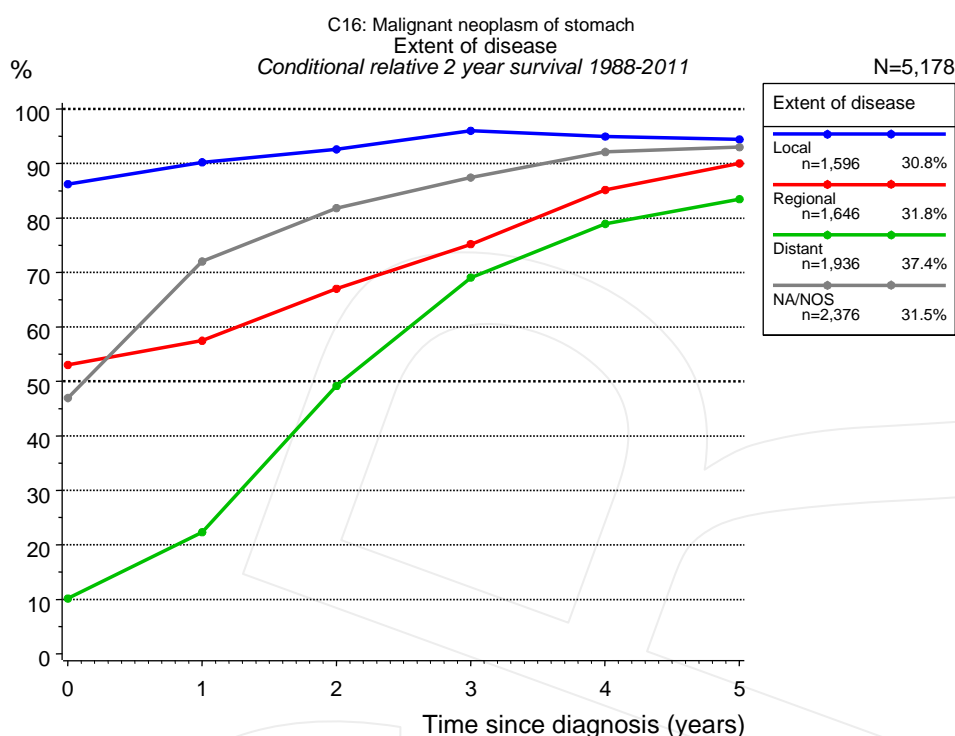


Figure 4i. Conditional relative 2-year survival of patients with stomach cancer by extent of disease. For 6,201 of 7,554 cases diagnosed between 1988 and 2011 valid data could be obtained for this item. For a total of 5,178 cases an evaluable classification was established. The grey line represents the subgroup of 2,376 patients with missing values regarding extent of disease (31.5% of 7,554 patients, the percent values of all other categories are related to n=5,178).

Years	Extent of disease							
	Local		Regional		Distant		NA/NOS	
	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs	n	Cond. surv. % 2 yrs
0	1,596	86.2	1,646	53.0	1,936	10.2	2,376	47.0
1	1,324	90.2	1,097	57.5	465	22.3	1,212	72.0
2	1,129	92.6	726	67.0	153	49.2	855	81.8
3	958	96.0	507	75.2	75	69.1	656	87.4
4	829	94.9	386	85.1	55	78.9	496	92.1
5	720	94.4	302	90.0	38	83.5	399	93.0

Table 4j. Conditional relative 2-year survival of patients with stomach cancer by extent of disease for period 1988-2011 (N=5,178).

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 96.0% (n=958).

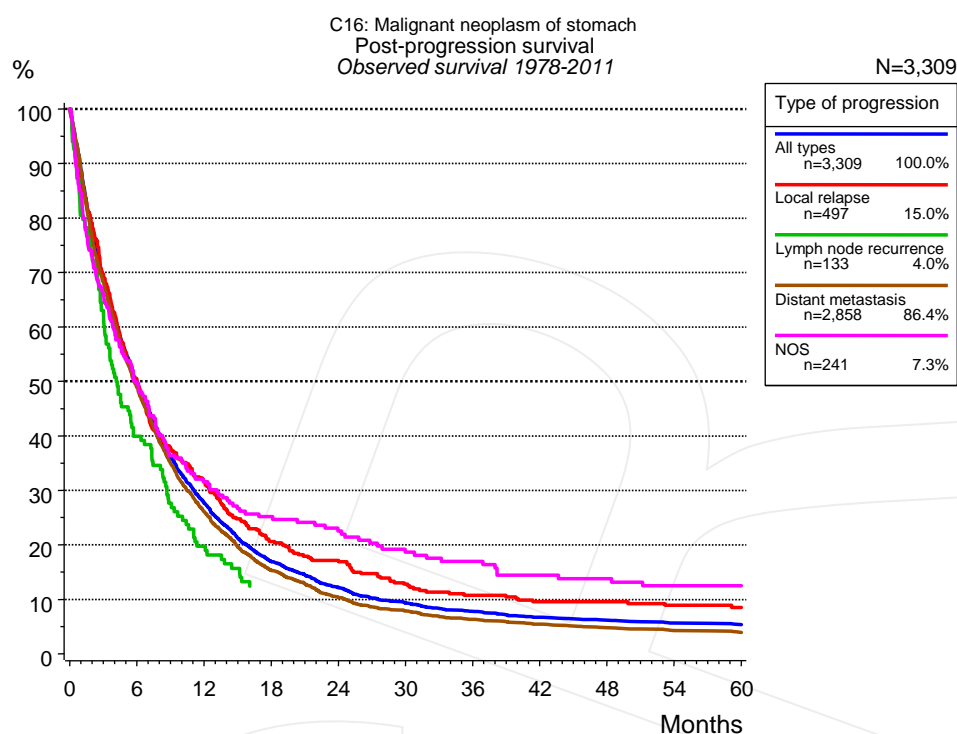


Figure 5a. Observed post-progression survival of 3,309 patients with stomach cancer diagnosed between 1978 and 2011 (incl. M1). These 3,309 patients with documented progression events during their course of disease represent 38.6% of the totally 8,577 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=1,552, 18.1%). Multiple progression types on different sites are included in the evaluation even when not occurring 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 potentially considered in more than one subgroup.

Months	Type of progression				
	All types n=3,309	Local relapse n=497	Lymph node recurrence n=133	Distant metastasis n=2,858	NOS n=241
	%	%	%	%	%
0	100.0	100.0	100.0	100.0	100.0
12	27.7	31.6	19.7	26.1	31.6
24	12.1	17.2		10.3	22.5
36	7.8	10.7		6.3	17.0
48	6.1	9.5		4.8	13.8
60	5.3	8.5		4.0	12.5

Table 5b. Observed post-progression survival of patients with stomach cancer for period 1978-2011 (N=3,309).

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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