Munich Cancer Registry



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ICD-10 C33, C34: Lung cancer

Survival

Year of diagnosis	1988-1997	1998-2020
Patients	4,527	41,907
Diseases	4,552	42,387
Cases evaluated	4,033	28,678
Creation date	04/15/2022	
Database export	12/20/2021	
Population	4.92 m	



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Munich, 81377
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https://www.tumorregister-muenchen.de/en

https://www.tumorregister-muenchen.de/en/facts/surv/sC3334E-ICD-10-C33-C34-Lung-cancer-survival.pdf

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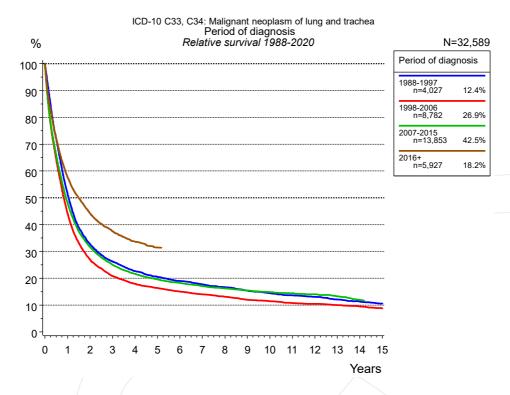


Figure 1a. Relative survival of patients with lung cancer by period of diagnosis. Included in the evaluation are 32,589 cases diagnosed between 1988 and 2020.

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.

Period of diagnosis										
	1988-	1997	1998-	2006	2007-	2015	201	6+		
	n=4,	027	n=8,	782	n=13,853		n=5,	927		
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	50.3	51.5	43.2	44.3	47.0	48.1	56.3	57.6		
2	31.2	32.8	25.7	26.9	30.2	31.6	42.3	44.2		
3	24.5	26.3	19.5	20.8	23.4	25.0	35.1	37.5		
4	20.7	22.7	16.4	17.9	19.8	21.6	30.9	33.6		
5	18.3	20.5	14.6	16.3	17.5	19.6	28.4	31.5		
6	16.5	19.0	13.1	15.0	15.9	18.2				
7	15.1	17.7	12.0	14.0	14.5	17.0				
8	13.8	16.7	10.9	13.1	13.5	16.2				
9	12.5	15.4	9.7	12.0	12.5	15.4				
10	11.4	14.4	9.1	11.4	11.7	14.8				
11	10.5	13.6	8.3	10.8	11.1	14.4				
12	9.8	13.1	7.9	10.5	10.5	14.0				
13	8.8	12.1	7.4	10.0	9.7	13.3				
14	8.1	11.4	6.8	9.5	8.6	11.9				
15	7.4	10.6	6.1	8.8						
Median	1.0		0.8		0.9		1.4			

Table 1b. Observed (obs.) and relative (rel.) survival of patients with lung cancer by period of diagnosis for period 1988-2020 (N=32,589).

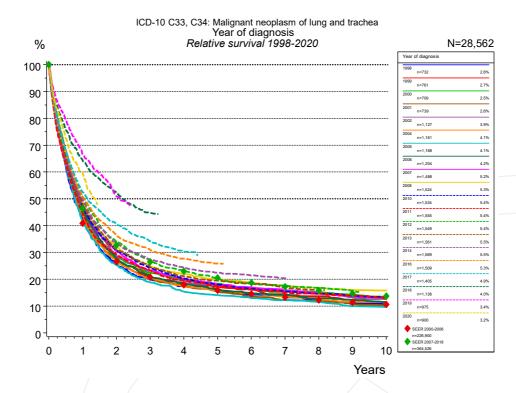


Figure 1c. Relative survival of patients with lung cancer by year of diagnosis. Included in the evaluation are 28,562 cases diagnosed between 1998 and 2020.

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.

	V • • • • • • • • • • • • • • • • • • •														
	Year of diagnosis														
	19	98	19	99	20	00	20	01	20	02	20	04	20	05	
	n=732		n=7	761	n=7	709	n=7	'39	n=1,	127	n=1,161		n=1,168		
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	41.4	42.5	43.0	44.2	43.1	44.2	47.3	48.4	44.6	45.8	42.9	43.9	40.6	41.5	
2	24.9	26.1	26.3	27.7	27.0	28.3	27.0	28.1	27.4	28.7	25.4	26.5	24.2	25.2	
3	18.7	20.0	19.2	20.7	21.1	22.4	20.0	21.3	21.6	23.1	19.1	20.3	17.7	18.9	
4	15.9	17.4	16.9	18.7	18.2	19.8	16.3	17.7	17.8	19.5	15.9	17.3	14.2	15.4	
5	14.1	15.9	15.1	17.1	16.5	18.4	13.9	15.4	15.9	17.7	14.1	15.7	12.8	14.1	
6	12.4	14.3	13.9	16.1	14.4	16.4	12.1	13.6	14.5	16.6	12.9	14.7	11.6	13.0	
7	11.4	13.3	12.1	14.3	13.2	15.3	10.7	12.3	13.5	15.9	11.7	13.6	10.6	12.2	
8	9.8	12.0	11.3	13.7	12.9	15.2	10.3	11.9	12.4	14.8	10.5	12.5	9.8	11.5	
9	8.9	11.1	9.6	11.9	11.6	14.2	9.0	10.7	10.8	13.2	9.4	11.6	8.3	10.0	
10	8.3	10.5	9.0	11.5	10.7	13.4	8.5	10.4	10.0	12.6	8.9	11.2	7.8	9.6	
Median	0.7		0.8		8.0		0.9		0.9		0.8		0.7		

	Year of diagnosis														
cont'd	20	06	20	07	20	80	20	10	20	11	20	12	20	13	
	n=1,	204	n=1	,488	n=1,	524	n=1,	534	n=1,	555	n=1,549		n=1,561		
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	45.1	46.2	46.3	47.5	47.5	48.7	46.6	47.7	43.3	44.4	49.5	50.6	46.9	48.0	
2	26.5	27.8	29.0	30.4	30.8	32.3	29.4	30.7	28.1	29.4	32.6	34.1	29.7	31.1	
3	19.6	21.0	21.7	23.3	23.2	24.7	22.8	24.3	21.8	23.2	25.4	27.1	23.1	24.6	
4	16.8	18.4	18.3	20.1	20.1	21.9	18.6	20.3	18.2	19.7	21.3	23.2	19.4	21.2	
5	14.5	16.3	16.1	18.1	18.1	20.2	16.2	18.0	15.6	17.4	18.2	20.3	17.5	19.5	
6	12.9	14.8	14.7	17.0	16.6	18.9	14.4	16.4	14.2	16.1	16.1	18.4	16.1	18.4	
7	12.0	14.1	13.3	15.8	15.0	17.6	13.3	15.4	12.9	15.0	15.1	17.6	14.4	16.8	
8	10.8	12.9	12.1	14.7	14.0	16.8	12.2	14.6	12.3	14.6	14.1	16.8	13.4	16.0	
9	10.0	12.4	10.9	13.7	13.0	16.0	11.5	13.9	11.4	13.9	12.8	15.6			
10	9.0	11.4	10.3	13.2	12.5	15.8	10.6	13.3	10.3	12.8					
Median	0.8		0.9		0.9		0.9	/	0.8		1.0		0.9		

	Year of diagnosis														
cont'd	nt'd 2014		20	16	20	17	20	18	20	19	20	20			
	n=1,569		n=1,509		n=1,405		n=1,	138	n=9	975	n=900				
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	48.4	49.6	49.5	50.6	51.2	52.3	63.0	64.4	65.0	66.6	58.4	59.7			
2	32.2	33.7	34.9	36.4	38.9	40.5	50.3	52.4	48.6	50.9					
3	25.7	27.4	29.1	30.9	32.1	34.2	42.0	44.8							
4	22.2	24.2	25.6	27.7	27.8	30.2									
5	20.1	22.4	23.5	25.8											
6	18.7	21.4													
7	17.3	20.4													
Median	0.9		1.0		1.1		2.0		1.9	\	1.3				

Table 1d. Observed (obs.) and relative (rel.) survival of patients with lung cancer by year of diagnosis for period 1998-2020 (N=28,562).

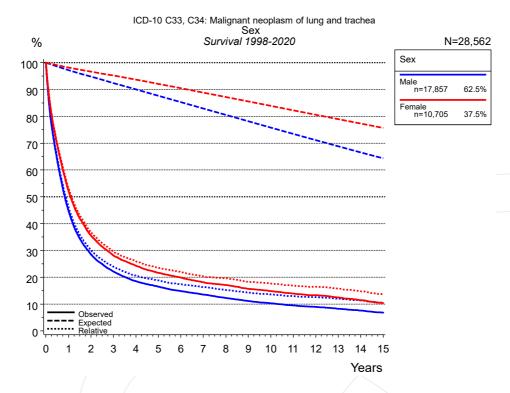


Figure 2a. Survival of patients with lung cancer by sex. Included in the evaluation are 28,562 cases diagnosed between 1998 and 2020.

Sex													
	Ma	le	Fen	nale									
	n=17	,857	n=10	,705									
Years	obs. %	rel. %	obs. %	rel. %									
0	100.0	100.0	100.0	100.0									
1	45.0	46.3	52.3	53.2									
2	28.5	30.1	35.6	36.8									
3	22.1	23.9	28.1	29.5									
4	18.6	20.6	24.2	25.9									
5	16.5	18.8	21.6	23.5									
6	14.8	17.4	19.8	21.9									
7	13.5	16.3	18.1	20.3									
8	12.3	15.3	17.1	19.6									
9	11.2	14.3	15.6	18.3									
10	10.3	13.6	14.8	17.6									
11	9.5	13.0	13.9	16.9									
12	9.0	12.6	13.3	16.4									
13	8.3	12.0	12.5	15.7									
14	7.6	11.4	11.4	14.8									
15	6.8	10.6	10.4	13.7									
Median	8.0		1.1										

Table 2b. Observed (obs.) and relative (rel.) survival of patients with lung cancer by sex for period 1998-2020 (N=28,562).

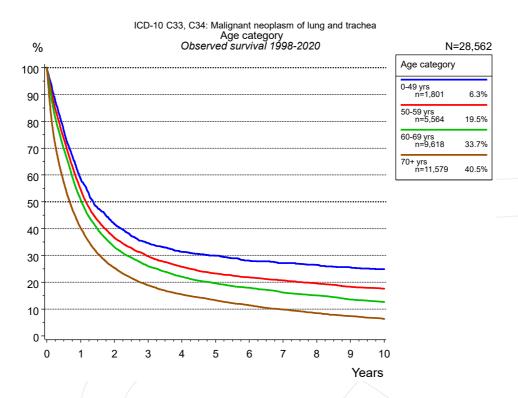


Figure 3a. Observed survival of patients with lung cancer by age category. Included in the evaluation are 28,562 cases diagnosed between 1998 and 2020.

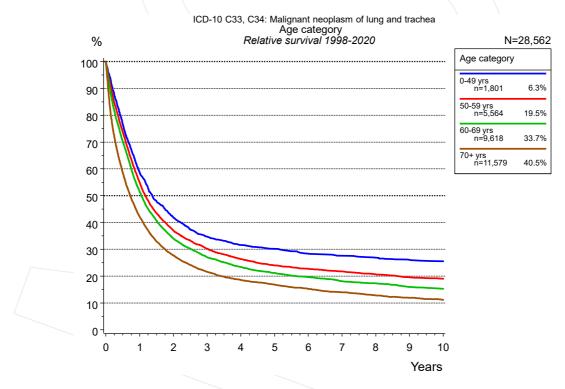


Figure 3b. Relative survival of patients with lung cancer by age category. Included in the evaluation are 28,562 cases diagnosed between 1998 and 2020.

	Age category														
	0-49	yrs (50-59	9 yrs	60-69	9 yrs	70+	yrs							
	n=1,	,801	n=5,	564	n=9,	618	n=11	1,579							
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	58.5	58.7	54.6	54.9	50.8	51.4	40.2	42.1							
2	41.7	41.8	36.6	37.0	33.1	34.0	25.3	27.7							
3	34.6	34.7	29.7	30.3	26.0	27.1	18.9	21.6							
4	31.3	31.6	25.7	26.4	22.1	23.4	15.5	18.6							
5	29.9	30.2	23.2	24.0	19.6	21.2	13.3	16.8							
6	28.1	28.4	21.8	22.7	17.9	19.7	11.4	15.2							
7	27.2	27.6	20.7	21.8	16.1	18.1	9.8	14.0							
8	26.4	26.9	19.5	20.7	15.1	17.3	8.5	12.8							
9	25.6	26.1	18.3	19.6	13.6	15.9	7.4	12.0							
10	24.9	25.5	17.6	19.1	12.6	15.3	6.3	11.1							
Median	1.4		1.2		1.0	/	0.7								

Table 3c. Observed (obs.) and relative (rel.) survival of patients with lung cancer by age category for period 1998-2020 (N=28,562).



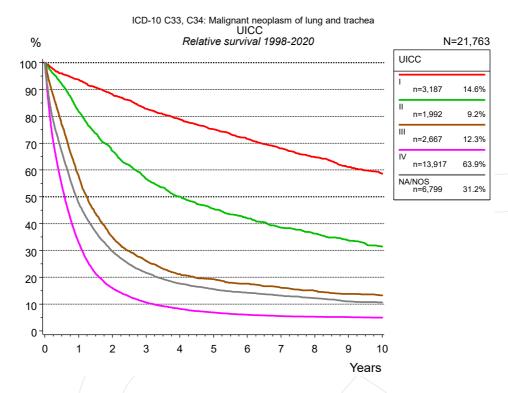


Figure 4a. Relative survival of patients with lung cancer by UICC. For 25,356 of 28,562 cases diagnosed between 1998 and 2020 valid data could be obtained for this item. For a total of 21,763 cases an evaluable classification was established. The grey line represents the subgroup of 6,799 patients with missing values regarding UICC (23.8 % of 28,562 patients, the percent values of all other categories are related to n=21,763).

	I		Ш	l	- 11	I	I۱	/	NA/N	NOS
	n=3,187		n=1,992		n=2,	667	n=13	,917	n=6,799	
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	91.8	93.6	80.3	81.8	56.5	57.7	32.2	32.9	46.1	47.6
2	84.9	88.2	64.5	67.0	33.6	35.0	15.3	15.9	27.9	29.6
3	78.0	82.8	53.5	56.6	24.7	26.2	10.0	10.6	19.9	21.6
4	72.7	78.9	46.3	50.0	19.5	21.2	7.6	8.2	15.8	17.6
5	67.7	75.2	41.2	45.5	17.5	19.3	6.2	6.8	13.5	15.5
6	63.0	71.6	37.1	42.0	15.6	17.6	5.3	6.0	12.1	14.2
7	58.4	68.0	33.3	38.5	14.0	16.1	4.8	5.5	10.9	13.2
8	54.3	64.9	30.6	36.2	12.7	14.9	4.5	5.3	9.9	12.2
9	49.8	61.1	27.8	33.7	11.4	13.8	4.3	5.1	8.7	11.0
10	46.6	58.6	25.2	31.4	10.7	13.2	4.1	5.0	8.2	10.6
Median	9.0		3.4		1.2		0.6		0.9	

Table 4b. Observed (obs.) and relative (rel.) survival of patients with lung cancer by UICC for period 1998-2020 (N=21,763).

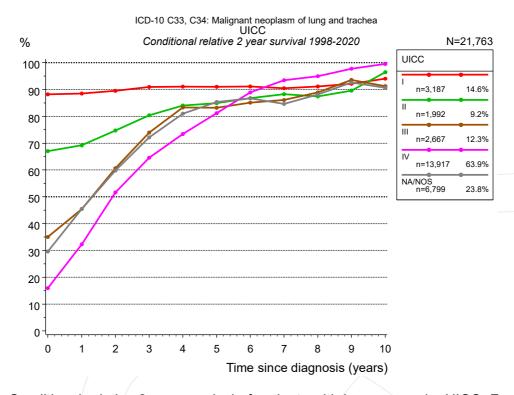


Figure 4c. Conditional relative 2-year survival of patients with lung cancer by UICC. For 25,356 of 28,562 cases diagnosed between 1998 and 2020 valid data could be obtained for this item. For a total of 21,763 cases an evaluable classification was established. The grey line represents the subgroup of 6,799 patients with missing values regarding UICC (23.8 % of 28,562 patients, the percent values of all other categories are related to n=21,763).

	- 1		II		III		IV	•	NA/N	IOS
	Cond. surv. %			Cond. surv. %		Cond. surv. %		Cond. surv. %		Cond. surv. %
Years	n	2 yrs	n	2 yrs	n	2 yrs	n	2 yrs	n	2 yrs
0	3,187	88.2	1,992	67.0	2,667	35.0	13,917	15.9	6,799	29.6
1	2,823	88.5	1,557	69.2	1,438	45.4	4,329	32.3	3,057	45.5
2	2,486	89.5	1,192	74.7	797	60.6	1,918	51.6	1,783	59.8
3	2,146	90.9	939	80.4	531	73.9	1,117	64.6	1,184	72.2
4	1,865	91.1	772	84.0	367	83.3	712	73.4	875	81.0
5	1,596	91.0	649	84.9	284	83.2	489	81.2	699	85.3
6	1,374	91.1	542	86.8	232	85.1	347	88.9	554	86.7
7	1,183	90.5	437	88.3	177	86.1	273	93.4	455	84.6
8	1,010	91.1	352	87.4	147	89.0	218	95.0	382	88.1
9	835	92.1	287	89.6	115	93.6	167	97.8	310	92.6
10	709	94.0	228	96.5	92	91.2	135	99.5	267	90.6

Table 4d. Conditional relative 2-year survival of patients with lung cancer by UICC for period 1998-2020 (N=21,763).

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 4a). 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 UICC="I", who are alive at least 3 years after cancer diagnosis, the conditional relative 2-year survival rate is 90.9% (n=2,146).

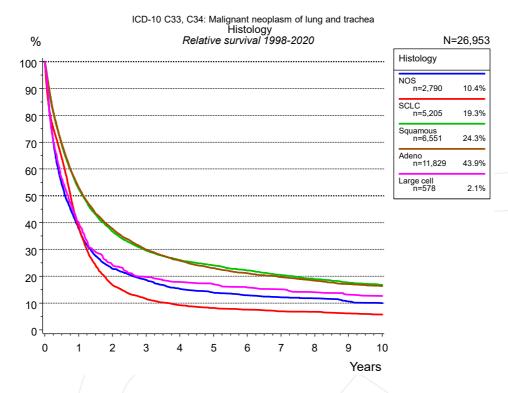


Figure 4g. Relative survival of patients with lung cancer by histology. For 26,953 of 28,562 cases diagnosed between 1998 and 2020 valid data could be obtained for this item.

				Hi	istolog	У				
	NC	S	SC	LC	Squa	mous	Ade	eno	Large	e cell
	n=2,	790	n=5,	205	n=6,	551	n=11	,829	n=578	
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	100.0	100.0
1	36.8	37.8	37.4	38.2	51.2	52.6	52.0	53.1	39.0	39.6
2	21.7	22.8	16.1	16.7	34.9	36.8	36.2	37.7	23.3	24.2
3	17.3	18.6	11.0	11.6	27.4	29.6	28.2	30.0	18.8	19.8
4	13.9	15.3	8.6	9.2	23.4	26.0	23.8	25.8	16.6	17.8
5	12.3	13.9	7.5	8.2	21.1	24.1	20.7	23.0	15.5	17.0
6	11.2	12.9	6.8	7.5	18.9	22.2	18.6	21.1	14.0	15.8
7	10.3	12.2	6.1	6.9	16.9	20.4	17.0	19.7	13.2	15.1
8	9.8	11.8	5.9	6.7	15.3	19.0	15.5	18.4	11.9	14.1
9	8.6	10.6	5.2	6.2	13.8	17.6	14.0	17.1	10.8	13.1
10	7.9	9.9	4.8	5.7	12.7	16.7	13.0	16.3	10.3	12.7
Median	0.6		0.7		1.0		1.1	_ /	0.7	

Table 4h. Observed (obs.) and relative (rel.) survival of patients with lung cancer by histology for period 1998-2020 (N=26,953).

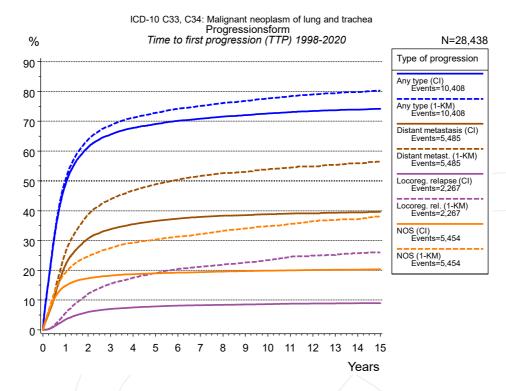


Figure 5a. Time to first progression of 28,438 patients with lung cancer diagnosed between 1998 and 2020 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

Type of progression													
					1								
	Any type (CI)	Any type (1- KM)	Distant metastasis (CI)	Distant metast. (1- KM)	Locoreg. relapse (CI)	Locoreg. rel. (1-KM)	NOS (CI)						
N	14,879	14,879	14,885	14,885	28,437	28,437	28,433						
Events	10,391	10,391	5,474	5,474	2,260	2,260	5,447						
compet.	1,800		6,200		21,718		18,701						
Years	%	%	%	%	%	%	%						
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
1	48.8	50.4	21.8	26.1	3.5	5.7	14.8						
2	61.3	63.8	30.6	38.7	6.0	12.1	17.3						
3	65.5	68.6	33.8	43.8	7.0	15.4	18.2						
4	67.8	71.2	35.5	46.8	7.5	17.5	18.7						
5	69.1	72.8	36.6	48.9	7.9	19.1	19.0						
6	70.2	74.2	37.3	50.4	8.1	20.4	19.2						
7	70.9	75.2	37.9	51.7	8.3	21.2	19.4						
8	71.6	76.1	38.3	52.6	8.4	21.9	19.6						
9	72.1	76.8	38.5	53.0	8.5	22.6	19.7						
10	72.7	77.7	38.8	53.9	8.6	23.4	19.9						
11	73.1	78.4	39.0	54.5	8.8	24.4	20.0						
12	73.5	79.0	39.2	54.9	8.8	24.9	20.1						
13	73.7	79.4	39.3	55.4	8.9	25.2	20.2						
14	73.9	79.8	39.5	56.0	8.9	25.7	20.2						
15	74.2	80.3	39.6	56.5	9.0	26.0	20.3						

Type of progression		
	NOS (1-KM)	
N	28,433	
Events	5,447	
compet.		
Years	%	
0	0.0	
1	19.2	
2	24.7	
3	27.5	
4	29.2	
5	30.3	
6	31.4	
7	32.2	
8	33.2	
9	34.1	
10	34.9	
11	35.6	
12	36.4	
13	36.8	
14	37.1	
15	38.0	

Table 5b. Time to first progression of patients with lung cancer for period 1998-2020 (N=28,438), also showing the total of progression events (Events) and of deaths as competing risk (compet.).



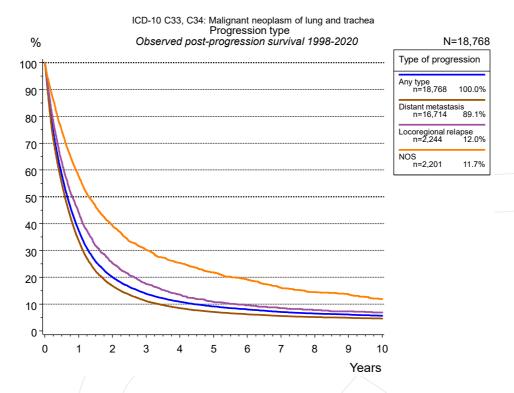


Figure 5c. Observed post-progression survival of 18,768 patients with lung cancer diagnosed between 1998 and 2020. These 18,768 patients with documented progression events during their course of disease represent 66.0 % of the totally 28,438 evaluated cases (incl. M1, n=13,559, 47.7 %). Patients with cancer relapse documented via death certificates only were excluded (n=5,199, 18.3 %). 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 "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	Distant metastasis	Locoregional relapse	NOS	
	n=18,768	n=16,714	n=2,244	n=2,201	
Years	%	%	%	%	
0	100.0	100.0	100.0	100.0	
1	37.4	33.6	44.1	57.6	
2	20.1	16.7	25.3	39.3	
3	13.8	11.1	17.5	30.2	
4	10.9	8.5	13.5	25.3	
5	9.1	7.0	10.9	21.8	
6	8.0	6.2	9.6	19.1	
7	7.0	5.5	8.5	16.0	
8	6.4	5.1	7.8	14.5	
9	6.1	4.9	7.3	13.6	
10	5.6	4.6	6.9	11.9	

Table 5d. Observed post-progression survival of patients with lung cancer for period 1998-2020 (N=18,768).

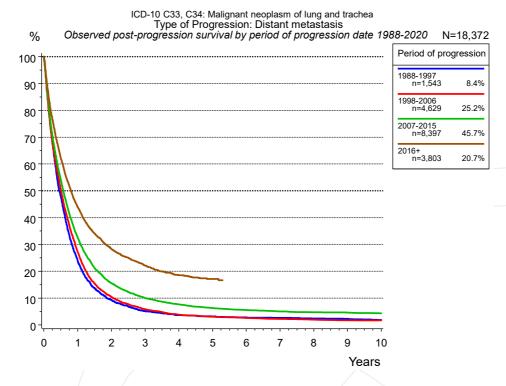


Figure 5e. Observed post-progression (distant metastasis) survival of 18,372 patients with lung cancer diagnosed between 1988 and 2020 by period of progression.

Period of progression							
	1988-1997	1998-2006	2007-2015	2016+			
	n=1,543	n=4,629	n=8,397	n=3,803			
Years	%	%	%	%			
0	100.0	100.0	100.0	100.0			
1	23.8	27.2	32.5	44.0			
2	9.3	10.4	15.5	28.3			
3	5.1	5.8	10.0	22.1			
4	3.7	3.8	7.6	18.5			
5	3.2	3.0	6.3	17.1			
6	2.8	2.6	5.5				
7	2.7	2.2	5.0				
8	2.4	1.9	4.7				
9	2.3	1.7	4.6				
10	1.9	1.7	4.3				

Table 5f. Observed post-progression (distant metastasis) survival of patients with lung cancer for period 1988-2020 by period of progression (N=18,372).

Shortcuts

MCR	Munich Cancer Registry, Germany						
NCI	National Cancer Institute, USA						
SEER	SEER Surveillance, Epidemiology, and End Results, USA						
UICC	Union for International Cand	cer 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 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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