

Munich Cancer Registry



- ▶ Incidence and Mortality
- ▶ Selection Matrix
- ▶ Homepage
- ▶ *Deutsch*

ICD-10 C44: Skin other

Survival

Year of diagnosis	1988-1997	1998-2019
Patients	914	24,295
Diseases	951	30,075
Cases evaluated	747	14,892
Creation date	01/27/2021	
Database export	01/07/2021	
Population	4.92 m	



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

https://www.tumorregister-muenchen.de/en/facts/surv/sC44__E-ICD-10-C44-Skin-other-survival.pdf

Index of figures and tables

Fig./Tbl.		Page
1a	Relative survival by period of diagnosis (chart)	3
1b	Survival by period of diagnosis (table)	3
2a	Survival by sex (chart)	4
2b	Survival by sex (table)	4
3a	Relative survival by age category (chart)	5
3b	Survival by age category (table)	5
5a	Time to first progression (chart)	6
5b	Time to first progression (table)	6
5c	Observed post-progression survival (chart)	8
5d	Observed post-progression survival (table)	8
5e	Observed post-progression survival by period of progression (chart)	9
5f	Observed post-progression survival by period of progression (table)	9

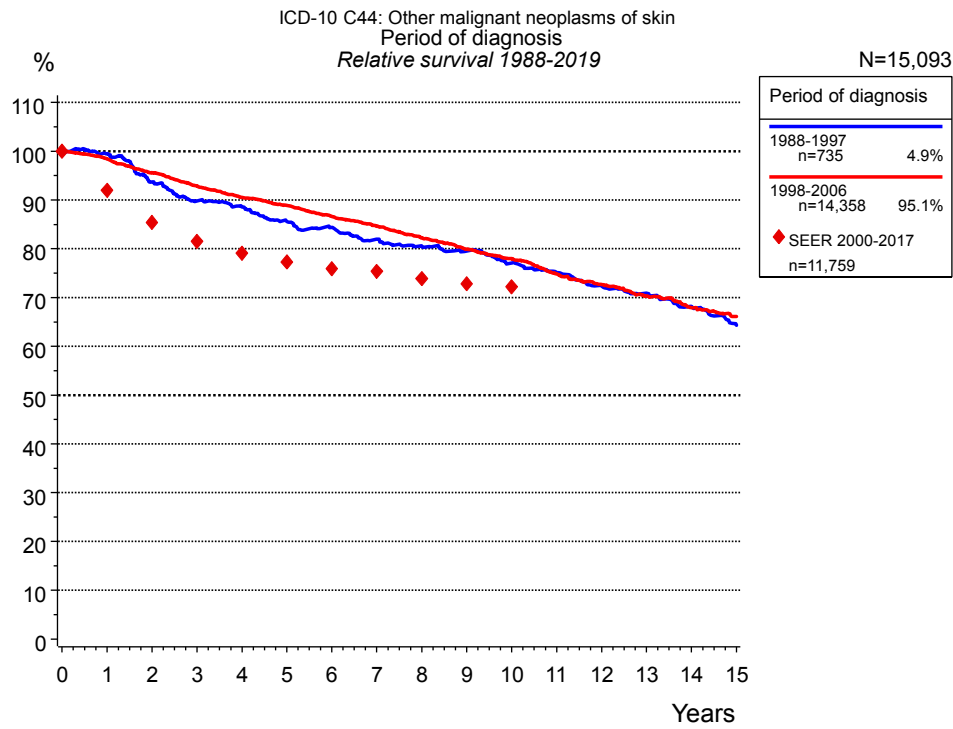


Figure 1a. Relative survival of patients with skin other by period of diagnosis. Included in the evaluation are 15,093 cases diagnosed between 1988 and 2019.

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			
	1988-1997 n=735		1998-2006 n=14,358	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	93.8	99.5	92.8	98.5
2	83.7	93.7	85.1	95.6
3	76.3	89.8	78.4	92.9
4	71.9	88.6	72.6	90.5
5	66.4	85.6	67.9	88.9
6	62.9	84.4	63.1	86.6
7	58.6	82.0	58.9	84.6
8	55.5	80.4	54.7	82.3
9	52.8	79.5	50.7	79.9
10	49.3	77.1	47.2	78.0
11	46.3	75.1	43.2	74.8
12	43.1	72.5	40.0	72.7
13	40.6	70.9	36.9	70.4
14	37.7	68.2	34.0	68.0
15	34.2	64.3	31.6	66.2
Median	9.8		9.2	

Table 1b. Observed (obs.) and relative (rel.) survival of patients with skin other by period of diagnosis for period 1988-2019 (N=15,093).

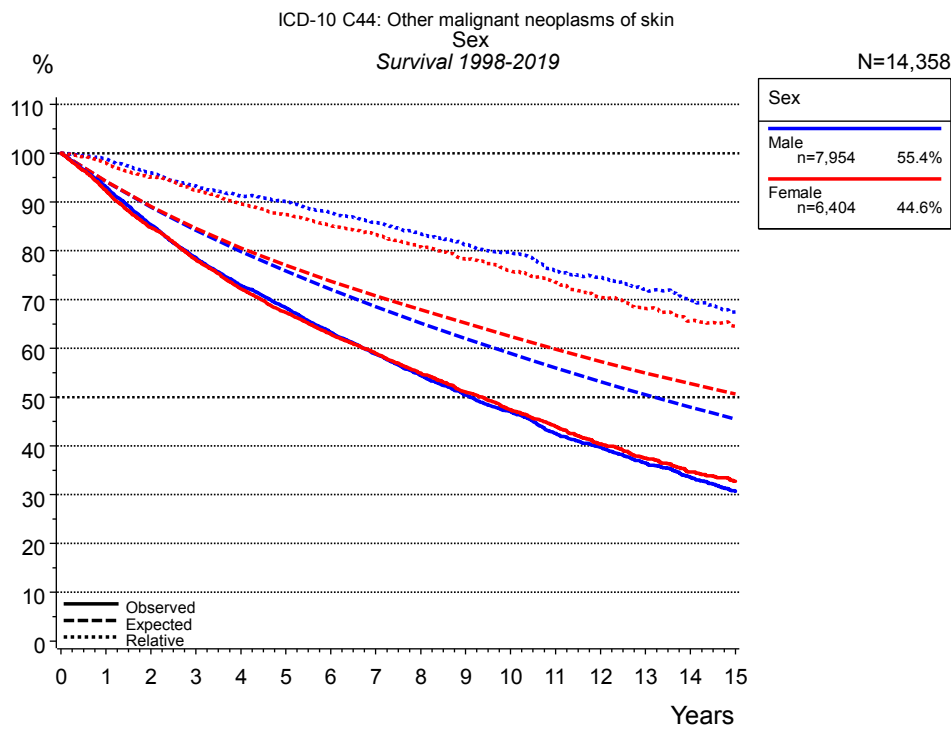


Figure 2a. Survival of patients with skin other by sex. Included in the evaluation are 14,358 cases diagnosed between 1998 and 2019.

Years	Sex			
	Male n=7,954		Female n=6,404	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	93.1	98.8	92.3	98.0
2	85.3	95.9	84.8	95.2
3	78.6	93.3	78.2	92.5
4	72.9	91.3	72.2	89.6
5	68.3	90.1	67.3	87.4
6	63.3	87.8	62.9	85.2
7	58.8	85.8	58.9	83.3
8	54.5	83.5	54.9	80.8
9	50.4	81.3	51.0	78.3
10	47.1	79.8	47.4	75.9
11	42.5	76.0	44.1	73.6
12	39.7	74.6	40.4	70.4
13	36.5	72.2	37.5	68.2
14	33.6	70.0	34.7	65.6
15	30.7	67.5	32.8	64.5
Median	9.1		9.4	

Table 2b. Observed (obs.) and relative (rel.) survival of patients with skin other by sex for period 1998-2019 (N=14,358).

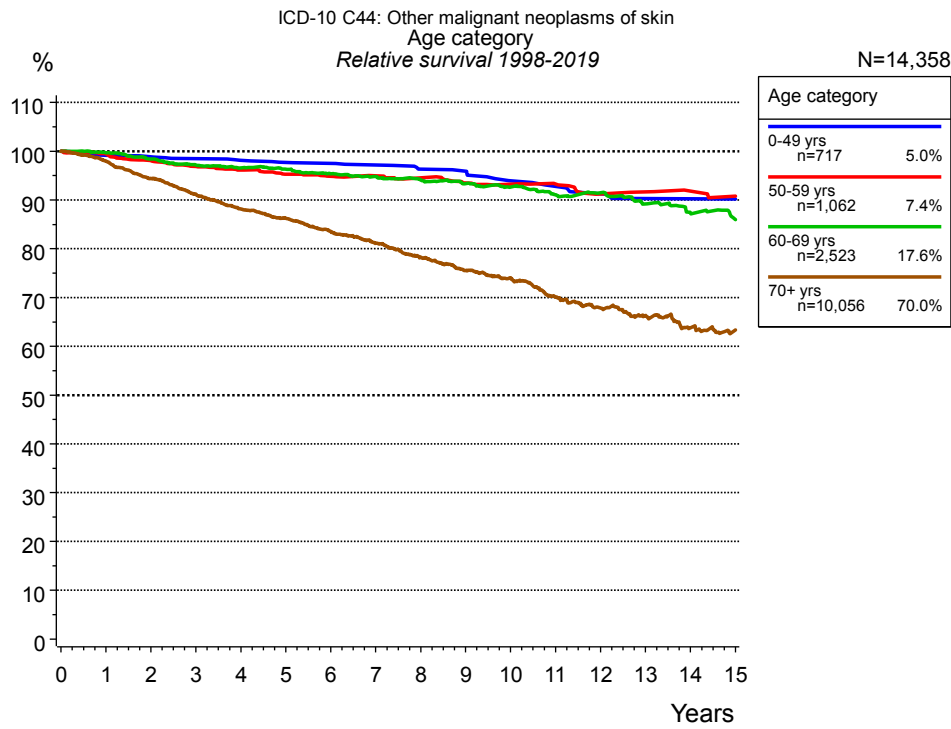


Figure 3a. Relative survival of patients with skin other by age category. Included in the evaluation are 14,358 cases diagnosed between 1998 and 2019.

Years	Age category							
	0-49 yrs n=717		50-59 yrs n=1,062		60-69 yrs n=2,523		70+ yrs n=10,056	
	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	99.1	99.2	99.0	99.4	98.4	99.7	90.3	98.0
2	98.6	98.9	97.1	98.1	95.7	98.4	80.3	94.4
3	98.1	98.5	95.3	96.9	93.0	97.2	71.6	91.2
4	97.4	98.1	93.9	96.2	90.9	96.6	63.9	88.1
5	96.8	97.7	92.3	95.3	89.0	96.3	57.8	86.3
6	96.5	97.5	91.2	94.9	86.4	95.4	51.7	83.6
7	95.8	97.2	90.6	94.9	84.1	94.8	46.2	81.1
8	94.6	96.3	89.3	94.6	81.6	94.1	40.9	78.2
9	94.2	95.9	87.3	93.5	78.9	93.4	36.1	75.6
10	91.6	94.0	86.2	93.2	76.2	92.7	32.1	74.0
11	90.4	92.8	85.1	93.3	72.7	91.1	27.4	70.1
12	88.9	91.3	82.0	91.2	70.7	91.5	23.7	67.9
13	87.2	90.3	81.4	91.7	66.6	89.2	20.6	66.3
14	87.2	90.3	80.2	91.8	62.7	87.4	17.4	63.8
15	87.2	90.2	78.2	90.8	59.1	86.0	15.1	63.3
Median					17.6		6.3	

Table 3b. Observed (obs.) and relative (rel.) survival of patients with skin other by age category for period 1998-2019 (N=14,358).

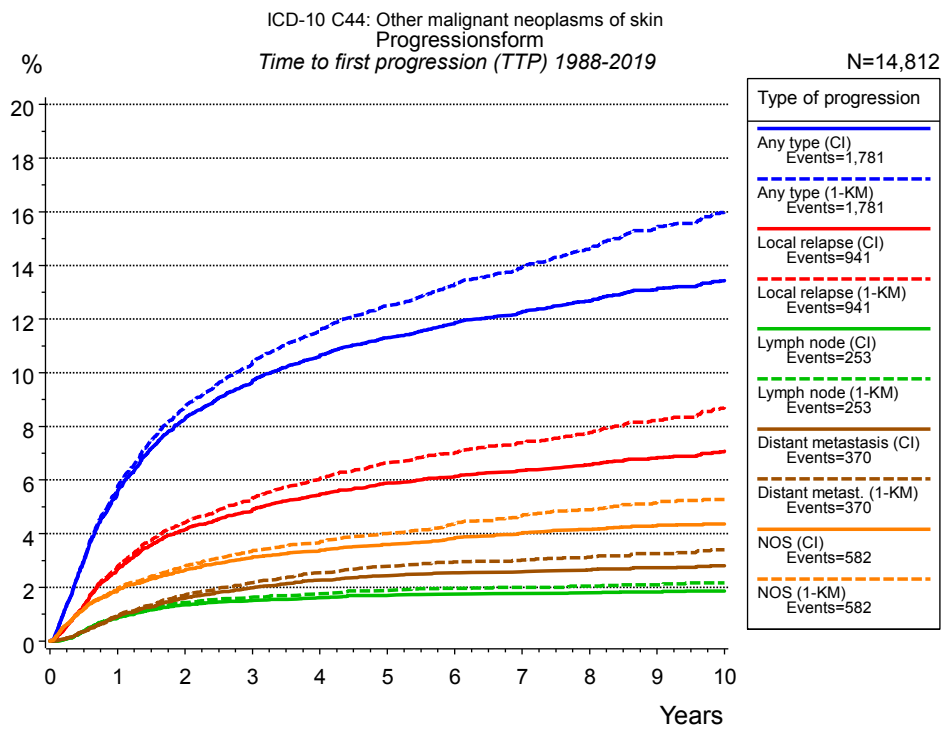


Figure 5a. Time to first progression of 14,812 patients with skin other diagnosed between 1988 and 2019 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency 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	14,758	14,758	14,812	14,812	14,812	14,812	14,759
Events	1,727	1,727	901	901	248	248	359
compet.	4,899		5,510		5,759		5,581
Years	%	%	%	%	%	%	%
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	5.6	5.7	2.7	2.8	0.9	0.9	0.9
2	8.3	8.7	4.1	4.4	1.3	1.4	1.6
3	9.6	10.3	4.9	5.3	1.5	1.6	2.0
4	10.6	11.5	5.4	6.0	1.6	1.8	2.3
5	11.3	12.5	5.9	6.7	1.7	1.9	2.4
6	11.8	13.3	6.1	7.0	1.7	2.0	2.5
7	12.3	13.9	6.4	7.4	1.8	2.0	2.6
8	12.7	14.6	6.6	7.7	1.8	2.0	2.7
9	13.1	15.4	6.8	8.2	1.8	2.1	2.7
10	13.4	16.0	7.1	8.7	1.9	2.2	2.8

<i>cont'd</i>	Type of progression		
	Distant metast. (1- KM)	NOS (CI)	NOS (1-KM)
N	14,759	14,811	14,811
Events	359	563	563
compet.		5,576	
Years	%	%	%
0	0.0	0.0	0.0
1	1.0	1.9	2.0
2	1.7	2.6	2.8
3	2.2	3.1	3.3
4	2.5	3.3	3.7
5	2.8	3.6	4.0
6	2.9	3.8	4.4
7	3.0	4.0	4.7
8	3.1	4.2	4.9
9	3.3	4.3	5.2
10	3.4	4.4	5.3

Table 5b. Time to first progression of patients with skin other for period 1988-2019 (N=14,812), also showing the total of progression events (Events) and of deaths as competing risk (compet.).

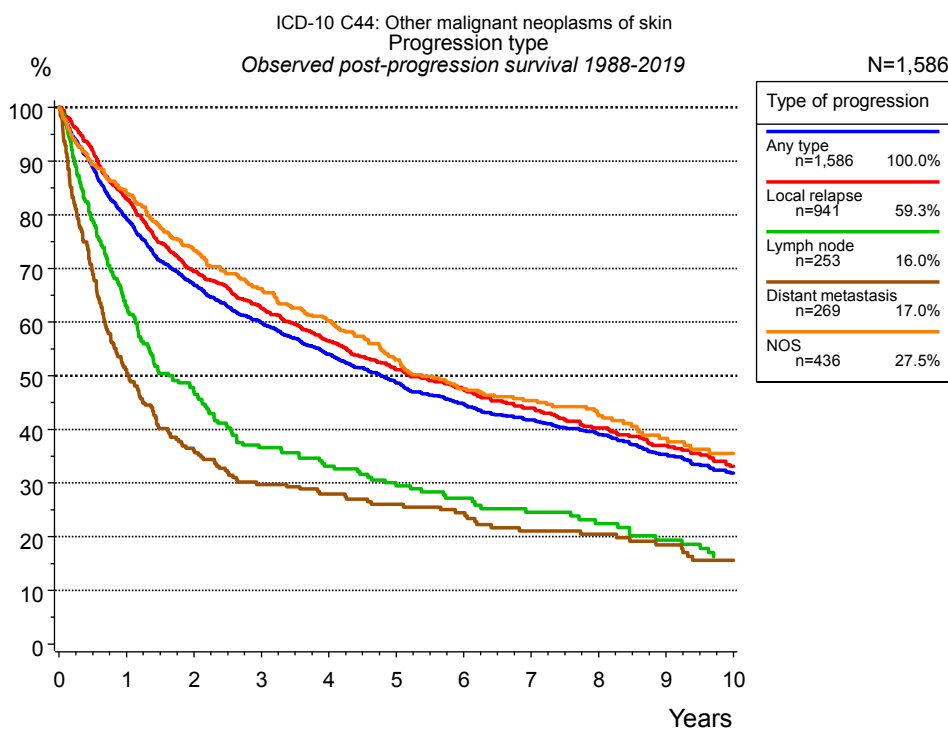


Figure 5c. Observed post-progression survival of 1,586 patients with skin other diagnosed between 1988 and 2019. These 1,586 patients with documented progression events during their course of disease represent 10.5 % of the totally 15,093 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=249, 1.6 %). 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 potentially considered in more than one subgroup.

Years	Type of progression				
	Any type n=1,586 %	Local relapse n=941 %	Lymph node n=253 %	Distant metastasis n=269 %	NOS n=436 %
0	100.0	100.0	100.0	100.0	100.0
1	79.4	83.1	63.1	51.2	84.1
2	66.9	69.4	46.9	36.1	73.3
3	59.9	62.6	36.6	29.8	66.3
4	54.0	56.5	33.1	28.0	60.3
5	48.7	51.1	29.5	26.1	53.0
6	44.7	47.4	27.2	24.5	47.6
7	41.8	43.9	24.6	21.1	45.4
8	39.0	40.3	22.5	20.5	42.5
9	35.4	37.0	19.4	18.5	38.3
10	31.8	33.1	16.2	15.6	35.6

Table 5d. Observed post-progression survival of patients with skin other for period 1988-2019 (N=1,586).

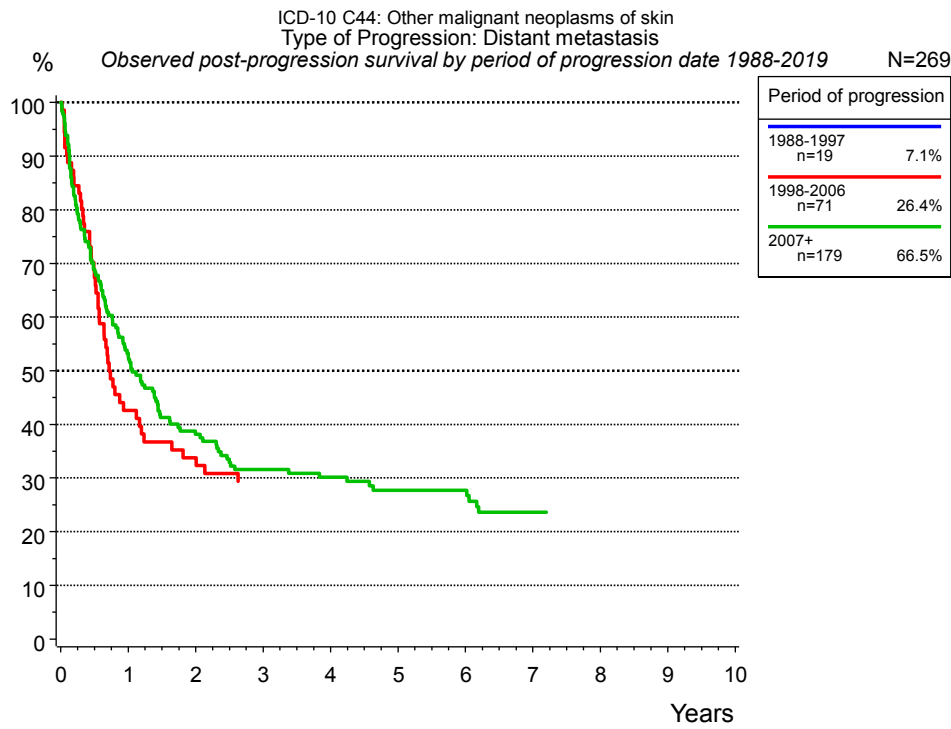


Figure 5e. Observed post-progression (distant metastasis) survival of 269 patients with skin other diagnosed between 1988 and 2019 by period of progression.

Years	Period of progression	
	1998-2006 n=71 %	2007+ n=179 %
0	100.0	100.0
1	42.6	53.3
2	33.8	38.1
3		31.6
4		30.1
5		27.7
6		27.7
7		23.6

Table 5f. Observed post-progression (distant metastasis) survival of patients with skin other for period 1988-2019 by period of progression (N=269).

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
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

Recommended Citation

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