

Munich Cancer Registry



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ICD-10 C70: Meninges cancer

Survival

Year of diagnosis	1990-1997	1998-2019
Patients	11	125
Diseases	11	125
Cases evaluated	11	91
Creation date	01/27/2021	
Database export	01/07/2021	
Population	4.92 m	



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

https://www.tumorregister-muenchen.de/en/facts/surv/sC70__E-ICD-10-C70-Meninges-cancer-survival.pdf

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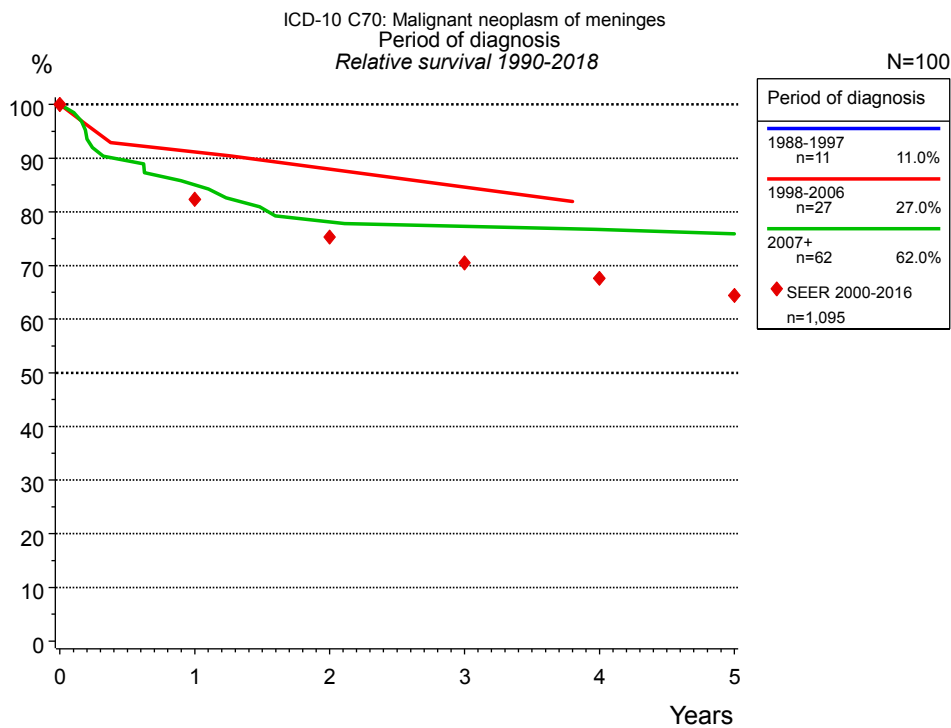


Figure 1a. Relative survival of patients with meninges cancer by period of diagnosis. Included in the evaluation are 100 cases diagnosed between 1990 and 2018. Subgroups with sample size <20 are omitted from the chart.

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 2016, and are represented by colored 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			
	1998-2006 n=27		2007+ n=62	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	92.3	91.2	84.8	85.0
2	88.5	88.0	77.8	78.1
3	80.8	84.6	76.1	77.3
4			73.8	76.7
5			73.8	75.9
Median				

Table 1b. Observed (obs.) and relative (rel.) survival of patients with meninges cancer by period of diagnosis for period 1990-2018 (N=100).

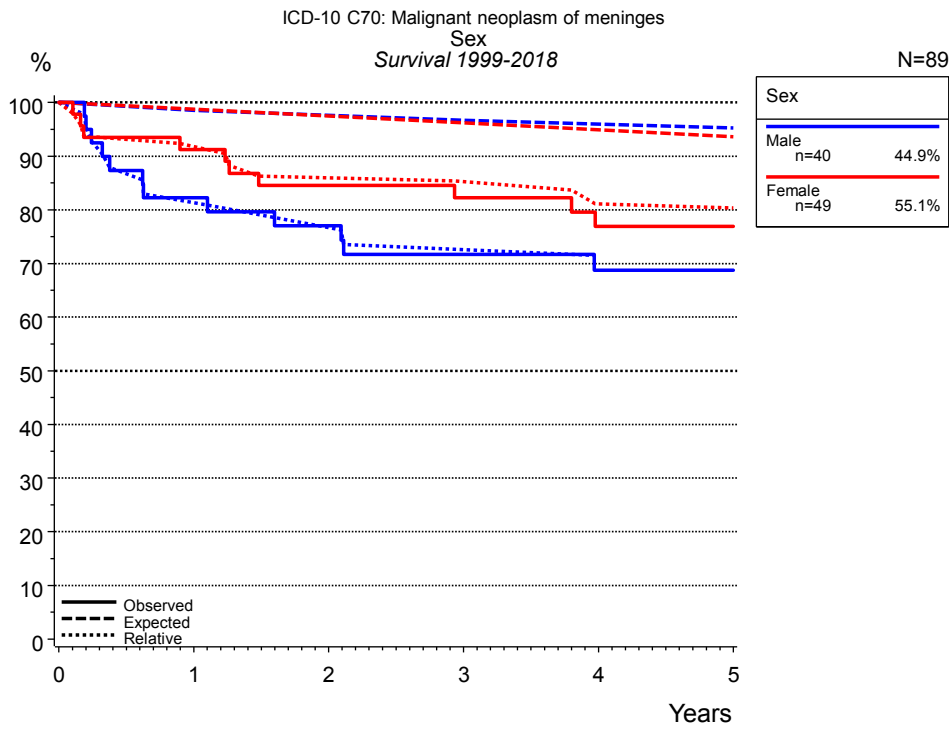


Figure 2a. Survival of patients with meninges cancer by sex. Included in the evaluation are 89 cases diagnosed between 1999 and 2018.

Years	Sex			
	Male n=40		Female n=49	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	82.2	81.3	91.3	91.8
2	77.0	76.7	84.6	85.9
3	71.7	72.6	82.2	85.3
4	68.7	71.5	76.9	81.1
5	68.7	70.4	76.9	80.3
Median				

Table 2b. Observed (obs.) and relative (rel.) survival of patients with meninges cancer by sex for period 1999-2018 (N=89).

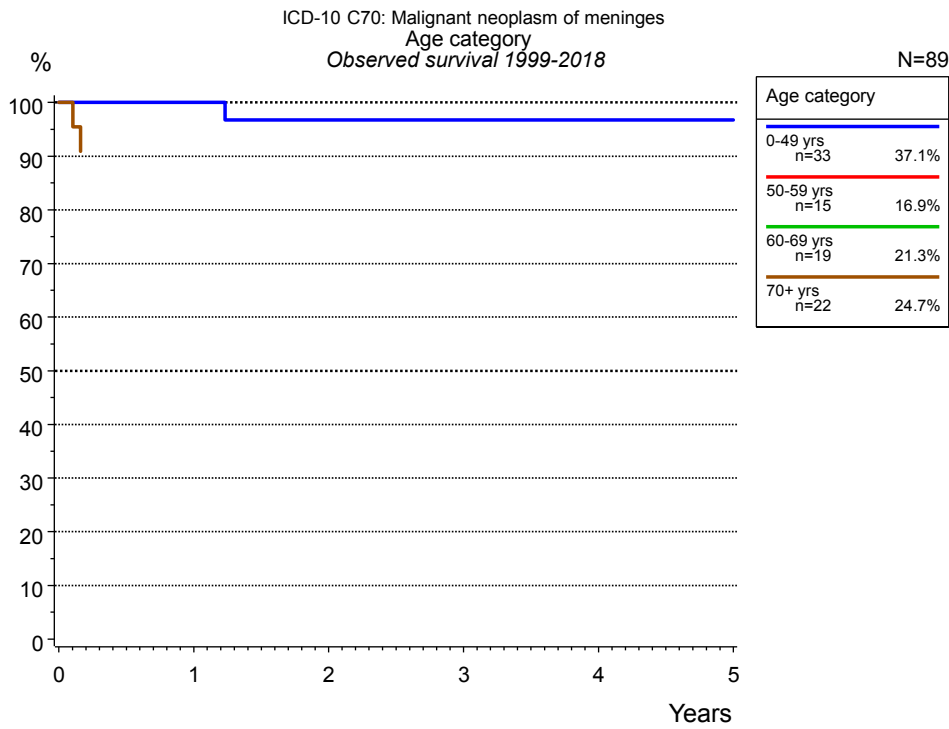


Figure 3a. Observed survival of patients with meninges cancer by age category. Included in the evaluation are 89 cases diagnosed between 1999 and 2018. Subgroups with sample size <20 are omitted from the chart.

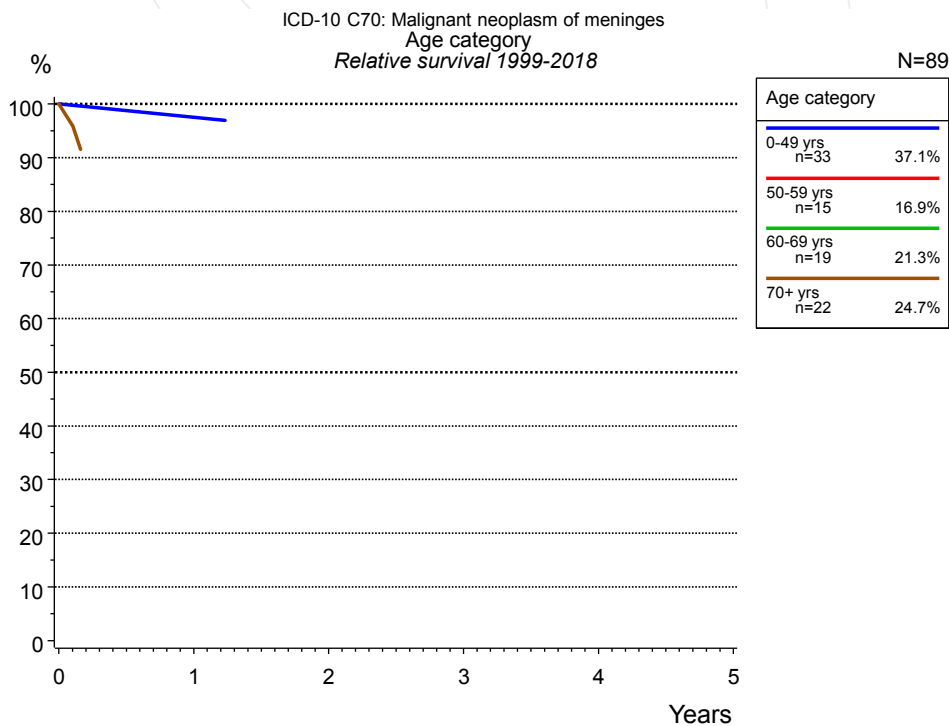


Figure 3b. Relative survival of patients with meninges cancer by age category. Included in the evaluation are 89 cases diagnosed between 1999 and 2018. Subgroups with sample size <20 are omitted from the chart.

Years	Age category			
	0-49 yrs n=33		70+ yrs n=22	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	100.0	97.5		
Median				

Table 3c. Observed (obs.) and relative (rel.) survival of patients with meninges cancer by age category for period 1999-2018 (N=89).

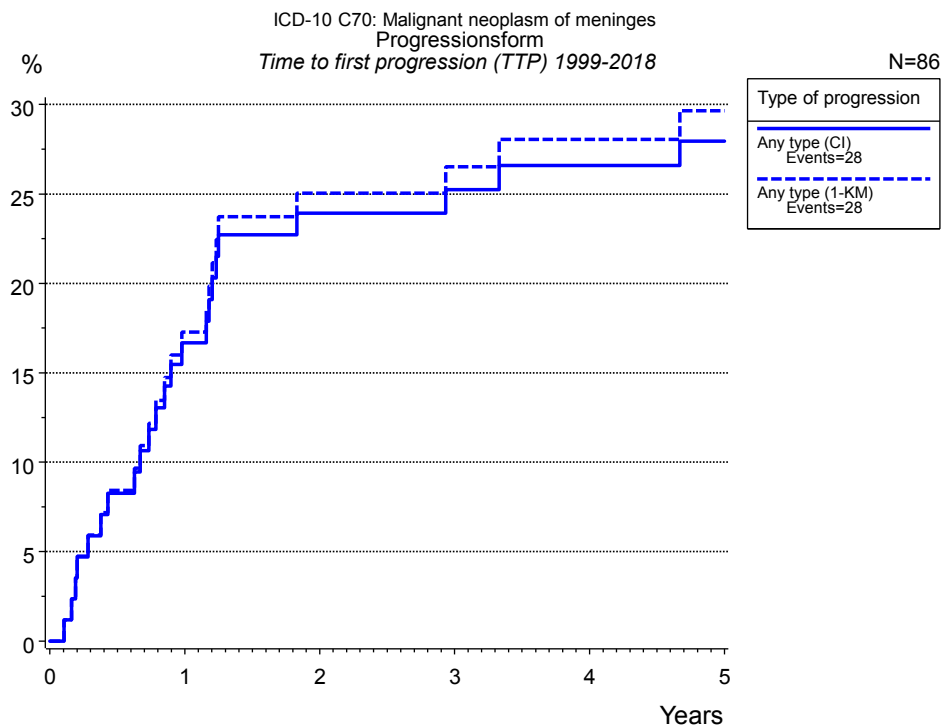


Figure 5a. Time to first progression of 86 patients with meninges cancer diagnosed between 1999 and 2018 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

	Type of progression	
	Any type (CI)	Any type (1-KM)
N	86	86
Events	23	23
compet.	10	
Years	%	%
0	0.0	0.0
1	16.7	17.3
2	23.9	25.0
3	25.2	26.5
4	26.6	28.0
5	28.0	29.6

Table 5b. Time to first progression of patients with meninges cancer for period 1999-2018 (N=86), also showing the total of progression events (Events) and of deaths as competing risk (compet.).

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

Munich Cancer Registry. Survival ICD-10 C70: Meninges cancer [Internet]. 2021 [updated 2021 Jan 27; cited 2021 Mar 1]. Available from: https://www.tumorregister-muenchen.de/en/facts/surv/sC70__E-ICD-10-C70-Meninges-cancer-survival.pdf

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