Munich Cancer Registry



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ICD-10 C48: Peritoneal cancer

Survival

Year of diagnosis	1988-1997	1998-2020
Patients	58	1,222
Diseases	58	1,222
Cases evaluated	49	916
Creation date	04/15/2022	
Database export	12/20/2021	
Population	4.92 m	



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

https://www.tumorregister-muenchen.de/en/facts/surv/sC48__E-ICD-10-C48-Peritoneal-cancer-survival.pdf

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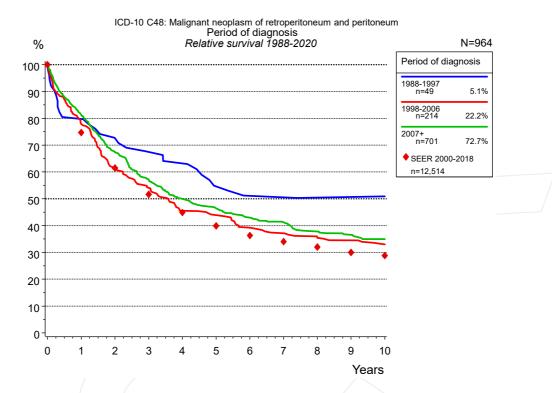


Figure 1a. Relative survival of patients with peritoneal cancer by period of diagnosis. Included in the evaluation are 964 cases diagnosed between 1988 and 2020.

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.

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.

	F	Period	of diagnosis			
	1988-1997		1998-2006		2007+	
	n=	49	n=2	214	n=7	'01
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	79.6	79.8	76.5	77.8	79.7	81.3
2	69.4	72.5	59.4	60.9	65.1	67.4
3	63.3	67.4	51.8	54.1	54.1	57.1
4	59.2	63.1	42.7	45.6	46.7	50.0
5	49.0	54.6	40.8	43.9	42.6	46.5
6	44.9	51.1	36.0	39.2	38.7	42.9
7	44.9	50.5	33.6	37.1	36.7	41.3
8	42.9	50.4	31.2	35.5	33.1	37.8
9	42.9	50.6	30.3	34.5	31.4	36.6
10	42.9	50.9	28.3	33.0	29.6	34.9
Median	4.9		3.1		3.5	

Table 1b. Observed (obs.) and relative (rel.) survival of patients with peritoneal cancer by period of diagnosis for period 1988-2020 (N=964).

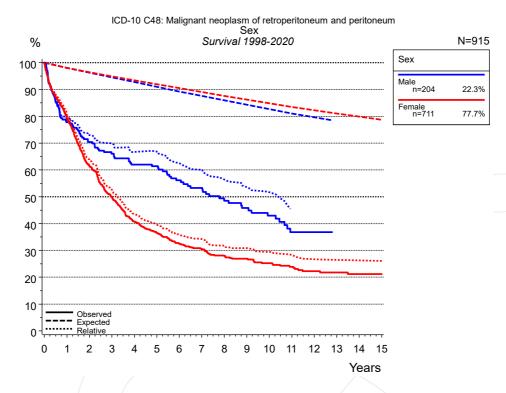


Figure 2a. Survival of patients with peritoneal cancer by sex. Included in the evaluation are 915 cases diagnosed between 1998 and 2020.

Sex					
	Ma	ıle	Fem	ıale	
	n=2	204	n=7	'11	
Years	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	
1	77.8	79.2	79.3	80.8	
2	70.5	73.0	61.7	63.9	
3	66.1	69.8	49.9	52.6	
4	62.0	66.7	40.8	43.5	
5	61.4	66.8	36.5	39.6	
6	56.2	62.4	32.6	35.8	
7	53.3	60.0	30.6	34.2	
8	48.5	56.5	27.9	31.8	
9	45.8	53.6	26.9	30.9	
10	42.9	51.7	25.2	29.5	
11	36.8	45.4	23.9	28.3	
12	36.8	45.2	22.3	26.7	
13	36.8	45.0	21.8	26.4	
14			21.2	26.3	
15			21.2	26.1	
Median	7.8		3.0	7	

Table 2b. Observed (obs.) and relative (rel.) survival of patients with peritoneal cancer by sex for period 1998-2020 (N=915).

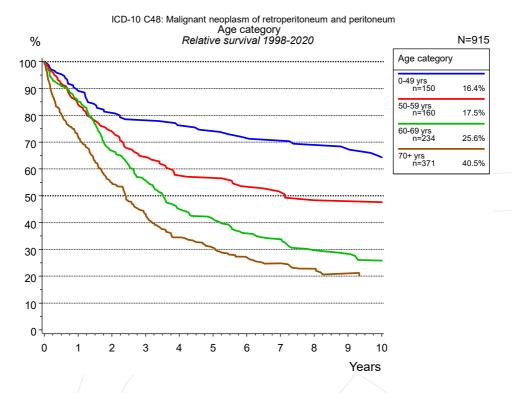


Figure 3a. Relative survival of patients with peritoneal cancer by age category. Included in the evaluation are 915 cases diagnosed between 1998 and 2020.

Age category								
	0-49	yrs (50-59	9 yrs	60-69 yrs		70+ yrs	
	n=1	150	n=1	60	n=2	234	n=371	
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	89.0	89.1	83.6	83.9	84.4	85.2	69.5	72.1
2	81.2	80.9	73.5	73.9	65.8	66.7	51.0	54.8
3	78.3	78.1	64.1	64.4	54.0	55.7	38.5	43.1
4	75.9	76.2	56.7	57.5	43.5	45.0	29.6	34.5
5	74.2	74.1	55.9	56.7	39.3	41.3	24.9	30.7
6	71.6	71.4	51.9	53.4	33.5	36.0	21.0	27.0
7	70.6	70.5	49.6	51.3	31.3	33.8	18.4	24.8
8	68.7	68.9	45.9	48.3	26.4	29.7	16.0	22.8
9	67.5	67.4	45.9	48.0	25.2	28.3	13.8	21.1
10	63.8	64.3	45.9	47.7	22.6	25.8		
Median			6.9		3.4		2.1	

Table 3b. Observed (obs.) and relative (rel.) survival of patients with peritoneal cancer by age category for period 1998-2020 (N=915).

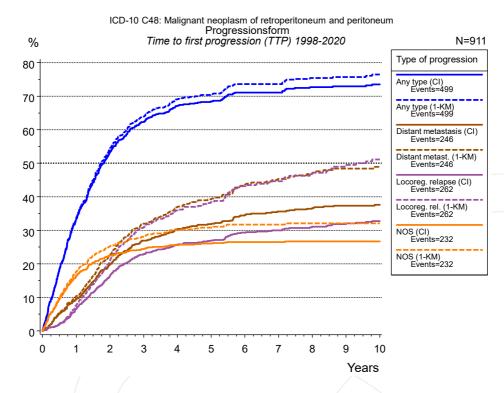


Figure 5a. Time to first progression of 911 patients with peritoneal cancer diagnosed between 1998 and 2020 (in solid cancers M0 only) estimated by cumulative incidence function (CI, solid line) accounting for death as competing risk and by inverse Kaplan-Meier estimate (1-KM, dashed line). The frequency of events may be underestimated due to underreporting.

Type of progression							
	Any type (CI)	Any type (1- KM)	Distant metastasis (CI)	Distant metast. (1- KM)	Locoreg. relapse (CI)	Locoreg. rel. (1-KM)	NOS (CI)
N	727	727	727	727	911	911	911
Events	493	493	241	241	258	258	231
compet.	47		225		390		364
Years	%	%	%	%	%	%	%
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	33.5	33.9	9.6	10.4	6.7	7.8	16.4
2	53.3	54.3	19.8	22.8	16.3	20.8	22.4
3	62.3	63.9	26.9	32.0	22.9	30.9	24.4
4	67.1	69.0	30.3	36.9	25.7	36.0	25.6
5	68.5	70.6	31.8	39.2	27.0	38.4	26.0
6	71.1	73.6	34.4	43.3	29.3	43.2	26.5
7	71.1	73.6	35.6	45.3	30.0	44.6	26.5
8	72.7	75.5	36.7	47.2	31.1	47.1	26.7
9	72.9	75.8	37.4	48.4	31.9	49.0	26.7
10	73.5	76.5	37.6	48.9	32.7	51.1	26.7

Type of									
progression									
cont'd	NOS (1-KM)								
N	911								
Events	231								
compet.									
Years	%								
0	0.0								
1	17.7								
2	25.2								
3	28.0								
4	30.0								
5	30.8								
6	31.7								
7	31.7								
8	32.1								
9	32.1								
10	32.1								

Table 5b. Time to first progression of patients with peritoneal cancer for period 1998-2020 (N=911), also showing the total of progression events (Events) and of deaths as competing risk (compet.).



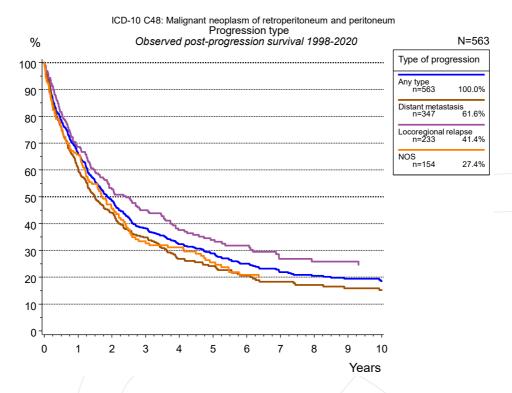


Figure 5c. Observed post-progression survival of 563 patients with peritoneal cancer diagnosed between 1998 and 2020. These 563 patients with documented progression events during their course of disease represent 61.8 % of the totally 911 evaluated cases (incl. M1, n=184, 20.2 %). Patients with cancer relapse documented via death certificates only were excluded (n=120, 13.2 %). 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	Distant metastasis	Locoregional relapse	NOS		
	n=563	n=347	n=233	n=154		
Years	%	%	%	%		
0	100.0	100.0	100.0	100.0		
1	66.3	60.6	68.5	65.7		
2	48.5	44.1	52.8	45.7		
3	38.3	34.9	45.0	33.4		
4	32.4	26.9	37.6	31.2		
5	28.9	24.2	33.9	25.5		
6	25.1	20.6	31.8	20.9		
7	21.9	18.4	26.8			
8	20.6	17.1	25.8			
9	19.4	15.9	25.8			
10	18.5	15.2				

Table 5d. Observed post-progression survival of patients with peritoneal cancer for period 1998-2020 (N=563).

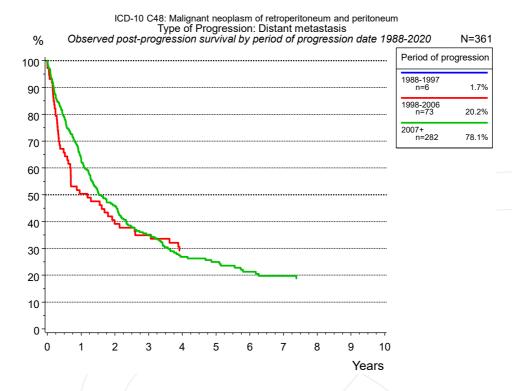


Figure 5e. Observed post-progression (distant metastasis) survival of 361 patients with peritoneal cancer diagnosed between 1988 and 2020 by period of progression.

Period of progression								
	1998-2006	2007+						
	n=73	n=282						
Years	%	%						
0	100.0	100.0						
1	50.3	63.7						
2	39.2	46.0						
3	35.0	35.1						
4	29.2	26.8						
5		24.9						
6		21.3						
7		19.7						

Table 5f. Observed post-progression (distant metastasis) survival of patients with peritoneal cancer for period 1988-2020 by period of progression (N=361).

Shortcuts

MCR	Munich Cancer Registry, Germany						
NCI SEER UICC	National Cancer Institute, USA Surveillance, Epidemiology, and End Results, USA Union for International Cancer Control, Geneva						
DCO NA NOS	Death certificate only Not available Not otherwise specified	Death certificate provides the only notification to the registry.					
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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