Munich Cancer Registry

ICD-10 D39.1: Borderline ovarian tumor

Survival

Year of diagnosis	1988-1997	1998-2020
Patients	128	1,761
Diseases	128	1,762
Cases evaluated	114	1,539
Creation date	04/15/2022	
Database export	12/20/2021	
Population (females)	2.48 m	

BERLIN

GERMANY

BAVARIA

MUNICH

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

https://www.tumorregister-muenchen.de/en/facts/surv/sD391_E-ICD-10-D39.1-Borderline-ovarian-tumor-survival.pdf

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ICD-10 D39.1: Borderline ovarian tumor
Period of diagnosis
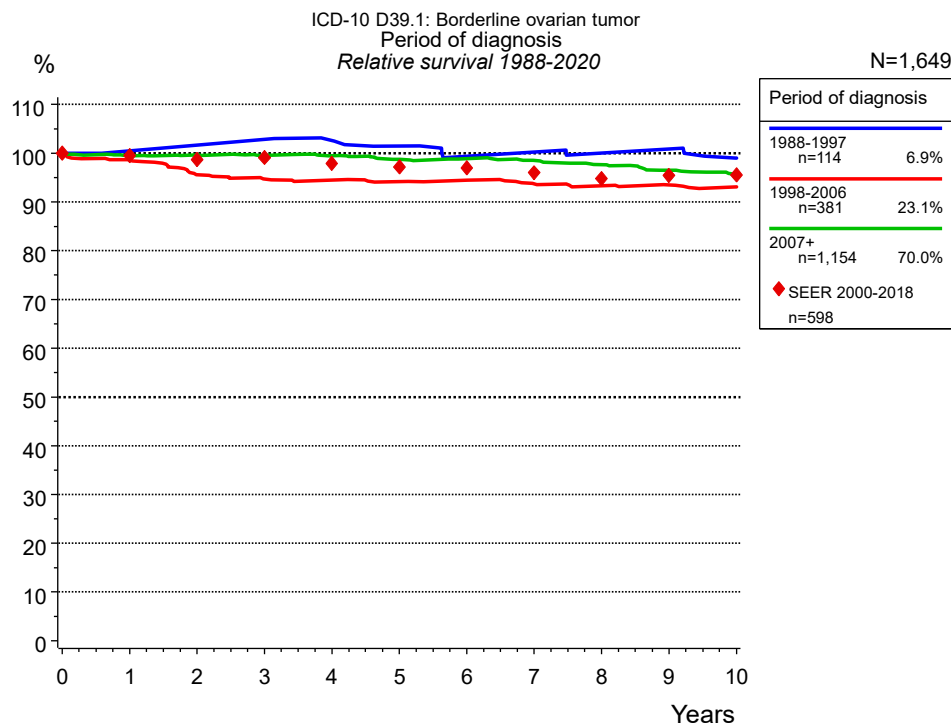*Relative survival 1988-2020*

Figure 1a. Relative survival of patients with borderline ovarian tumor by period of diagnosis. Included in the evaluation are 1,649 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.

	Period of diagnosis					
	1988-1997 n=114		1998-2006 n=381		2007+ n=1,154	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	99.1	100.5	97.8	98.6	98.8	99.5
2	99.1	101.6	93.9	95.6	98.3	99.6
3	99.1	102.8	92.2	94.6	97.3	99.6
4	97.3	102.6	91.3	94.5	96.4	99.5
5	94.6	101.5	90.1	94.2	94.9	98.7
6	91.0	99.4	89.6	94.4	94.1	98.9
7	91.0	100.2	87.8	93.7	92.9	98.5
8	89.1	100.0	86.6	93.3	91.3	97.7
9	89.1	100.8	85.7	93.5	89.4	96.5
10	85.5	99.0	84.4	93.1	87.9	95.7
Median	23.2					

Table 1b. Observed (obs.) and relative (rel.) survival of patients with borderline ovarian tumor by period of diagnosis for period 1988-2020 (N=1,649).

ICD-10 D39.1: Borderline ovarian tumor
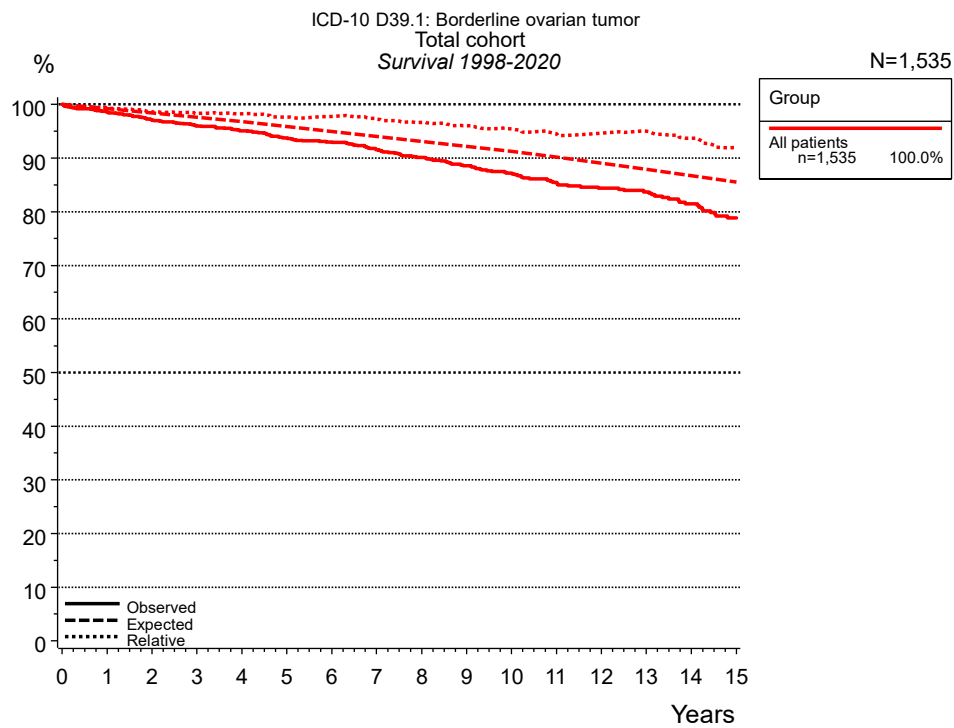Total cohort
Survival 1998-2020

Figure 2a. Observed, expected and relative survival of the total cohort with borderline ovarian tumor. Included in the evaluation are 1,535 cases diagnosed between 1998 and 2020.

	Group	
	All patients	
	n=1,535	
Years	obs. %	rel. %
0	100.0	100.0
1	98.6	99.3
2	97.1	98.7
3	96.0	98.3
4	95.1	98.3
5	93.7	97.7
6	93.0	97.8
7	91.6	97.3
8	90.1	96.7
9	88.6	96.0
10	87.2	95.5
11	85.5	94.6
12	84.4	94.7
13	83.7	95.0
14	81.5	93.7
15	78.8	91.9
Median		

Table 2b. Observed (obs.) and relative (rel.) survival of the total cohort with borderline ovarian tumor for period 1998-2020 (N=1,535).

ICD-10 D39.1: Borderline ovarian tumor
Age category
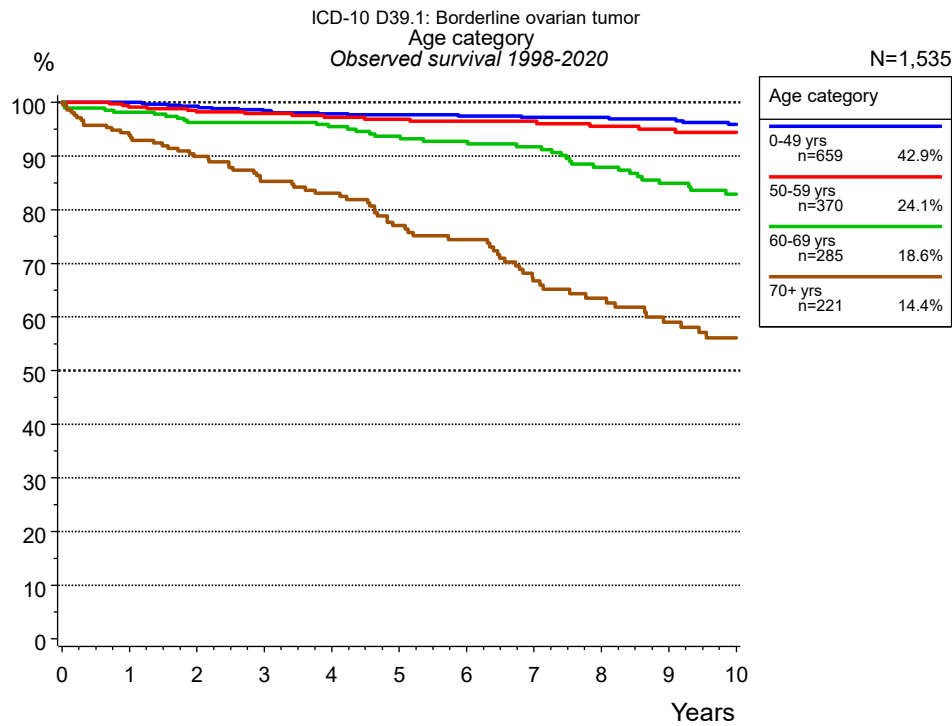*Observed survival 1998-2020*

Figure 3a. Observed survival of patients with borderline ovarian tumor by age category. Included in the evaluation are 1,535 cases diagnosed between 1998 and 2020.

ICD-10 D39.1: Borderline ovarian tumor
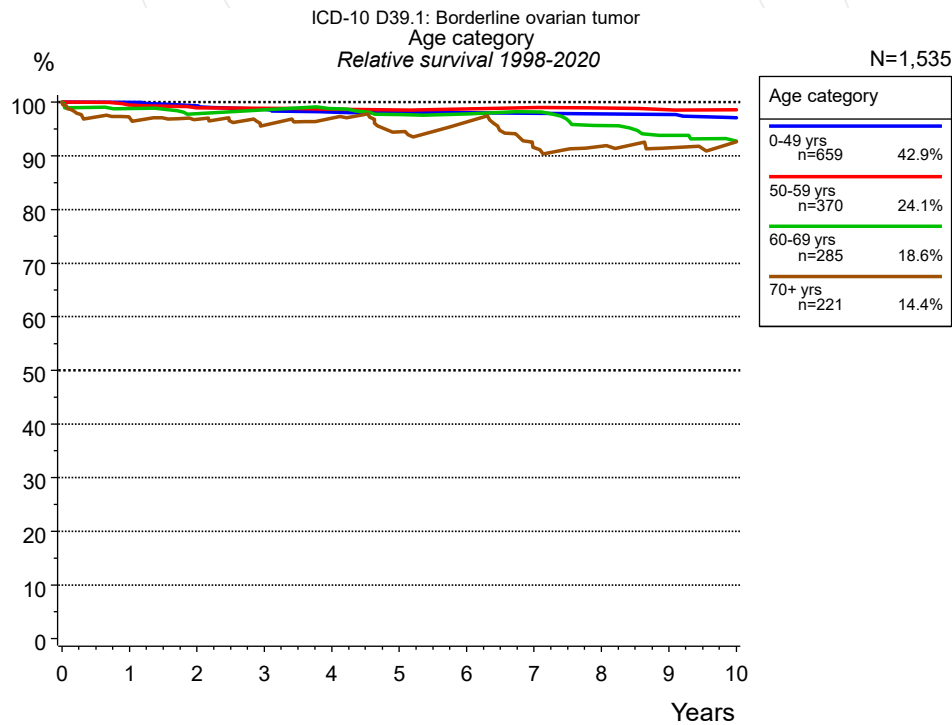Age category
Relative survival 1998-2020

Figure 3b. Relative survival of patients with borderline ovarian tumor by age category. Included in the evaluation are 1,535 cases diagnosed between 1998 and 2020.

| | **Age category** | | | | | | | |
| | 0-49 yrs n=659 | | 50-59 yrs n=370 | | 60-69 yrs n=285 | | 70+ yrs n=221 | |
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	100.0	99.9	99.1	99.5	98.2	98.8	93.8	97.1
2	99.3	99.3	98.3	98.9	96.3	97.8	89.9	96.8
3	98.5	98.7	97.9	98.9	96.3	98.6	85.3	95.7
4	97.9	98.2	97.3	98.7	95.4	98.8	83.0	97.0
5	97.7	98.1	96.9	98.5	93.7	97.7	77.0	94.4
6	97.5	98.0	96.5	98.7	92.7	97.8	74.4	96.3
7	97.2	97.9	96.5	99.0	91.7	98.2	66.7	91.5
8	97.2	97.9	95.5	98.9	87.9	95.7	63.5	91.8
9	96.9	97.7	95.0	98.6	84.9	93.8	59.0	91.5
10	96.0	97.1	94.4	98.6	82.9	92.7	56.1	92.6
Median							12.5	

Table 3c. Observed (obs.) and relative (rel.) survival of patients with borderline ovarian tumor by age category for period 1998-2020 (N=1,535).

ICD-10 D39.1: Borderline ovarian tumor
FIGO
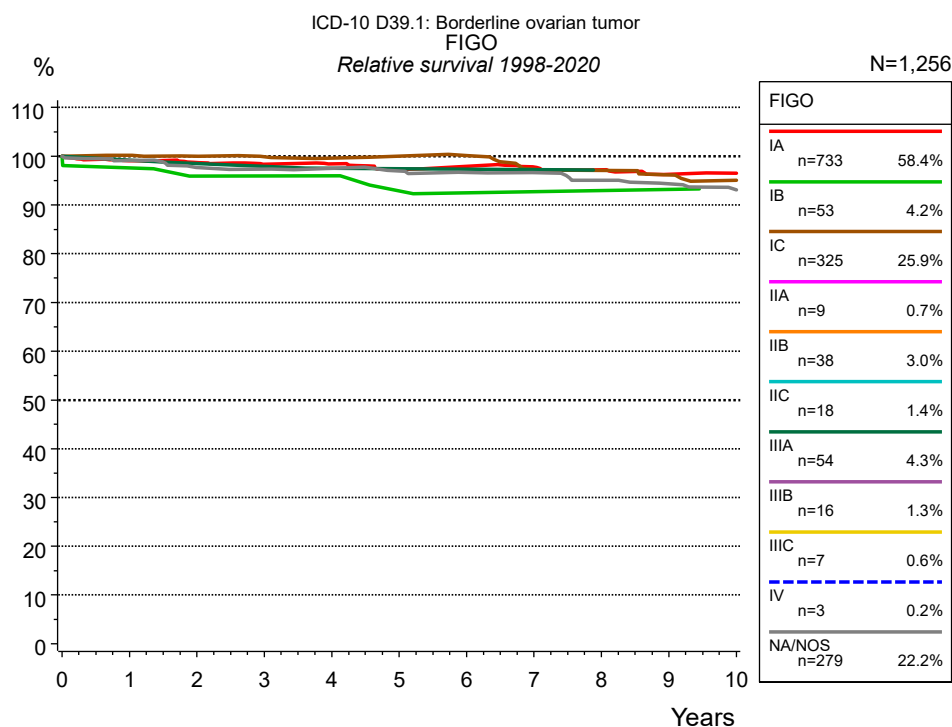*Relative survival 1998-2020*

Figure 4a. Relative survival of patients with borderline ovarian tumor by FIGO. For 1,285 of 1,535 cases diagnosed between 1998 and 2020 valid data could be obtained for this item. For a total of 1,256 cases an evaluable classification was established. The grey line represents the subgroup of 279 patients with missing values regarding FIGO (18.2 % of 1,535 patients, the percent values of all other categories are related to n=1,256). Subgroups with sample size <20 are omitted from the chart.

	FIGO										
	IA n=733		IB n=53		IC n=325		IIB n=38		IIIA n=54		NA/NOS n=279
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	98.3	99.1	98.1	97.6	99.7	100.2	100.0	99.7	100.0	99.2	98.5	99.1
2	97.2	98.7	94.0	96.0	98.7	100.0	100.0	99.4	98.0	98.5	96.2	97.7
3	95.9	98.3	94.0	96.0	97.7	99.9	100.0	99.1	98.0	97.9	95.4	97.4
4	95.3	98.4	94.0	96.0	96.5	99.6	100.0	98.7	95.7	97.6	94.5	97.5
5	93.4	97.3	89.4	92.8	96.1	100.0	100.0	98.4	95.7	97.5	93.2	97.0
6	93.1	97.9	87.0	92.4	95.6	100.1			95.7	97.4	91.9	96.7
7	92.0	97.8	87.0	92.7	91.9	97.3			95.7	97.3	90.9	96.7
8	90.5	97.2	87.0	92.9	90.7	97.1					88.8	95.1
9	88.6	96.3	87.0	93.1	89.5	96.2					87.2	94.4
10	87.9	96.5	83.5	92.9	87.5	95.1					85.4	93.1
Median												

Table 4b. Observed (obs.) and relative (rel.) survival of patients with borderline ovarian tumor by FIGO for period 1998-2020 (N=1,256).

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

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