Munich Cancer Registry



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ICD-10 D39.1: Borderline ovarian tumor

Survival

Year of diagnosis	1988-1997	1998-2014
Patients	41	1,168
Diseases	41	1,169
Cases evaluated	36	1,033
Creation date	03/02/2016	
Export date	12/23/2015	
Population (females)	2.36 m	



Munich Cancer Registry at Munich Cancer Center Marchioninistr. 15 Munich, 81377 Germany

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

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

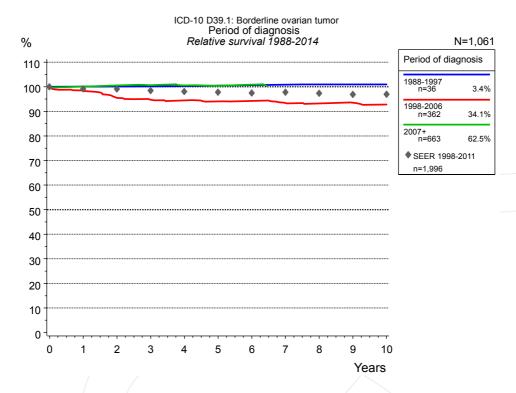


Figure 1a. Relative survival of patients with borderline ovarian tumor by period of diagnosis. Included in the evaluation are 1,061 cases diagnosed between 1988 and 2014.

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+		
	n=36			362	n=6	63	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	100.0	100.0	
1	100.0	100.0	97.7	98.5	99.5	99.7	
2	100.0	100.0	93.8	95.5	99.2	99.7	
3	100.0	100.0	92.2	94.7	98.3	99.7	
4	97.2	100.0	91.3	94.2	97.4	99.7	
5	97.2	100.0	90.1	94.0	96.4	99.7	
6	97.2	100.0	89.5	94.0	96.4	99.7	
7	97.2	100.0	87.6	93.4			
8	94.4	100.0	86.6	93.0			
9	94.4	100.0	85.9	93.0			
10	91.7	100.0	84.7	92.6			
	0 1 2 3 4 5 6 7 8	1988- n= Years obs. % 0 100.0 1 100.0 2 100.0 3 100.0 4 97.2 5 97.2 6 97.2 7 97.2 8 94.4 9 94.4	1988-1997 n=36 Years obs. % rel. % 0 100.0 100.0 1 100.0 100.0 2 100.0 100.0 3 100.0 100.0 4 97.2 100.0 5 97.2 100.0 7 97.2 100.0 8 94.4 100.0 9 94.4 100.0	1988-1997 1998- n=36 n=3 Years obs. % rel. % obs. % 0 100.0 100.0 100.0 1 100.0 100.0 97.7 2 100.0 100.0 93.8 3 100.0 100.0 92.2 4 97.2 100.0 91.3 5 97.2 100.0 90.1 6 97.2 100.0 89.5 7 97.2 100.0 87.6 8 94.4 100.0 86.6 9 94.4 100.0 85.9	1988-1997 1998-2006 years obs. % rel. % obs. % rel. % 0 100.0 100.0 100.0 100.0 1 100.0 100.0 97.7 98.5 2 100.0 100.0 93.8 95.5 3 100.0 100.0 92.2 94.7 4 97.2 100.0 91.3 94.2 5 97.2 100.0 90.1 94.0 6 97.2 100.0 89.5 94.0 7 97.2 100.0 87.6 93.4 8 94.4 100.0 86.6 93.0 9 94.4 100.0 85.9 93.0	1988-1997 1998-2006 200 Years obs. % rel. % obs. % rel. % obs. % 0 100.0 100.0 100.0 100.0 100.0 1 100.0 100.0 97.7 98.5 99.5 2 100.0 100.0 93.8 95.5 99.2 3 100.0 100.0 92.2 94.7 98.3 4 97.2 100.0 91.3 94.2 97.4 5 97.2 100.0 90.1 94.0 96.4 6 97.2 100.0 87.6 93.4 8 94.4 100.0 86.6 93.0 9 94.4 100.0 85.9 93.0	

Table 1b. Observed (obs.) and relative (rel.) survival of patients with borderline ovarian tumor by period of diagnosis for period 1988-2014 (N=1,061).

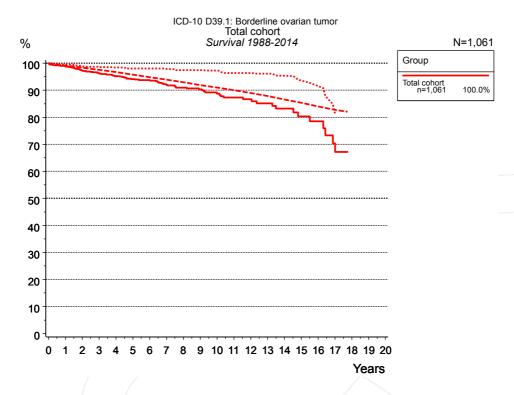


Figure 2a. Observed, expected and relative survival of the total cohort with borderline ovarian tumor. Included in the evaluation are 1,061 cases diagnosed between 1988 and 2014.

	Group		
	Total	cohort	
	n=1		
Years	obs. %		
0	100.0		
1	98.9	99.5	
2	97.3		
3	96.2		
4	95.2		
5	94.1	98.1	
6	93.8	98.1	
7	92.0	97.9	
8	91.0	97.4	
9	90.3		
10	88.7	97.3	
11	87.3	96.4	
12	86.7	96.4	
13	85.2	96.1	
14	83.2	95.3	
15	80.4	93.6	
16	78.5	91.5	
17	70.4	81.4	
18	67.2	76.5	
10	01.2	10.5	

Table 2b. Observed (obs.) and relative (rel.) survival of the total cohort with borderline ovarian tumor for period 1988-2014 (N=1,061).

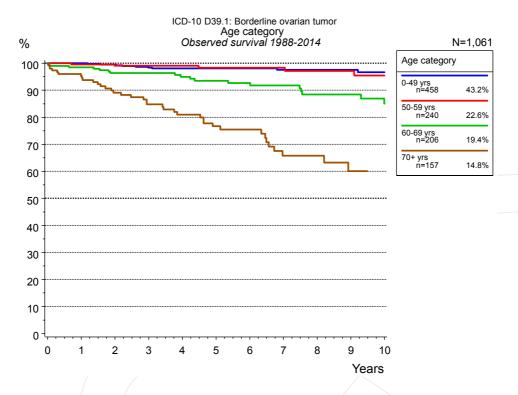


Figure 3a. Observed survival of patients with borderline ovarian tumor by age category. Included in the evaluation are 1,061 cases diagnosed between 1988 and 2014.

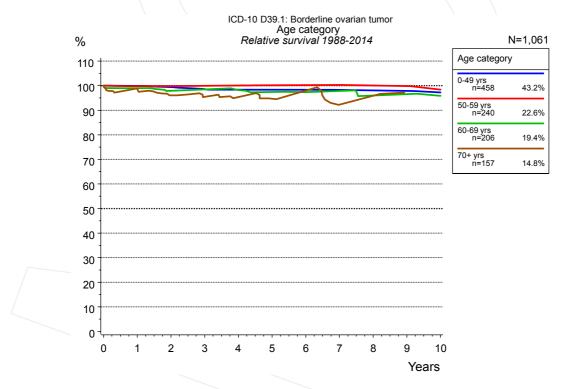


Figure 3b. Relative survival of patients with borderline ovarian tumor by age category. Included in the evaluation are 1,061 cases diagnosed between 1988 and 2014.

0 100.0	Age category											
Years obs. % rel. % obs. % rel. % </td <td></td> <td>0-49</td> <td>yrs</td> <td>50-59</td> <td>9 yrs</td> <td>60-69</td> <td>9 yrs</td> <td>70+</td> <td>yrs</td>		0-49	yrs	50-59	9 yrs	60-69	9 yrs	70+	yrs			
0 100.0 100		n=4	158	n=2	240	n=2	206	n=1	57			
1 100.0 99.9 99.6 99.8 98.5 99.0 95.3 97. 2 99.5 99.4 99.1 99.8 96.3 97.8 89.1 96. 3 98.4 98.6 99.1 99.8 96.3 97.8 84.8 95. 4 98.1 98.3 99.1 99.8 95.0 97.8 81.0 94.	Years	obs. %	rel. %									
2 99.5 99.4 99.1 99.8 96.3 97.8 89.1 96.3 98.4 98.6 99.1 99.8 96.3 97.8 84.8 95.4 98.1 98.3 99.1 99.8 95.0 97.8 81.0 94.	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
3 98.4 98.6 99.1 99.8 96.3 97.8 84.8 95. 4 98.1 98.3 99.1 99.8 95.0 97.8 81.0 94.	1	100.0	99.9	99.6	99.8	98.5	99.0	95.3	97.1			
4 98.1 98.3 99.1 99.8 95.0 97.8 81.0 94.	2	99.5	99.4	99.1	99.8	96.3	97.8	89.1	96.1			
	3	98.4	98.6	99.1	99.8	96.3	97.8	84.8	95.3			
5 98.1 98.3 98.3 99.8 93.5 97.3 76.7 94.	4	98.1	98.3	99.1	99.8	95.0	97.8	81.0	94.9			
	5	98.1	98.3	98.3	99.8	93.5	97.3	76.7	94.7			
6 98.1 98.3 98.3 99.8 92.7 97.3 75.5 94.	6	98.1	98.3	98.3	99.8	92.7	97.3	75.5	94.5			
7 97.5 98.3 98.3 99.8 91.8 97.3 65.8 92.	7	97.5	98.3	98.3	99.8	91.8	97.3	65.8	92.2			
8 97.5 98.1 97.1 99.8 88.4 95.8 65.8 92.	8	97.5	98.1	97.1	99.8	88.4	95.8	65.8	92.2			
9 97.5 97.8 97.1 99.8 88.4 95.8 60.1 92.	9	97.5	97.8	97.1	99.8	88.4	95.8	60.1	92.2			
10 96.6 97.2 95.4 98.4 85.1 95.8 60.1 92.	10	96.6	97.2	95.4	98.4	85.1	95.8	60.1	92.2			

Table 3c. Observed (obs.) and relative (rel.) survival of patients with borderline ovarian tumor by age category for period 1988-2014 (N=1,061).



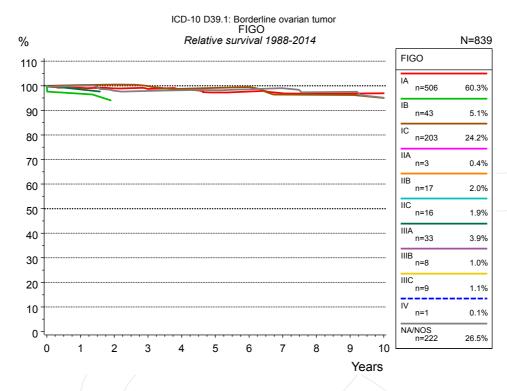


Figure 4a. Relative survival of patients with borderline ovarian tumor by FIGO. For 865 of 1,061 cases diagnosed between 1988 and 2014 valid data could be obtained for this item. For a total of 839 cases an evaluable classification was established. The grey line represents the subgroup of 222 patients with missing values regarding FIGO (20.9% of 1,061 patients, the percent values of all other categories are related to n=839). Subgroups with sample size <15 are dropped from the chart.

FIGO														
	IA		16	IB		IC		Α	Ш	В	114	С	Ш	Α
	n=5	606	n=	43	n=2	203	n=	=3	n=	17	n=	16	n=	33
Years	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	98.3	99.1	97.6	96.8	100.0	100.0			100.0	97.3			100.0	98.5
2	97.4	98.9			99.5	100.0			100.0	94.6				
3	96.3	98.7			97.6	99.8			100.0	91.9				
4	95.3	98.6			95.6	98.7			100.0	89.2				
5	93.2	97.3			95.6	98.7			100.0	86.5				
6	92.8	97.3			95.6	98.7			100.0	83.8				
7	91.3	97.0			90.9	96.4			100.0	81.1				
8	90.1	96.8			90.9	96.3			100.0	78.3				
9	88.6	96.8			90.9	96.3			100.0	75.6				
10	88.6	96.8			89.0	95.0			100.0	72.9				

FIGO											
cont'd	III	В	IIIC		IN	/	NA/N	NOS			
	n=	-8	n=	- 9	n=	- 1	n=2	222			
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	86.6					99.5	99.6			
2							96.4	98.0			
3							95.9	97.6			
4							95.3	97.6			
5							94.6	97.6			
6							93.9	97.6			
7							93.0	97.6			
8							90.8	97.3			
9							90.8	97.3			
10							86.6	95.1			

Table 4b. Observed (obs.) and relative (rel.) survival of patients with borderline ovarian tumor by FIGO for period 1988-2014 (N=839).



Shortcuts

MCR	Munich Cancer Registry, G	ermany								
NCI	National Cancer Institute, U	ISA								
SEER	Surveillance, Epidemiology, and End Results, USA									
UICC	Union for International Can	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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