Munich Cancer Registry



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

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

Cancer statistics: Survival

C51: Vulva cancer

Year of diagnosis	1978-1987	1988-1997	1998-2011
Patients	208	269	1,094
Diseases	209	269	1,097
Creation date	04/01/2013		
Export date	01/03/2013		
Population (females)	2.3 m		



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C51__E.pdf

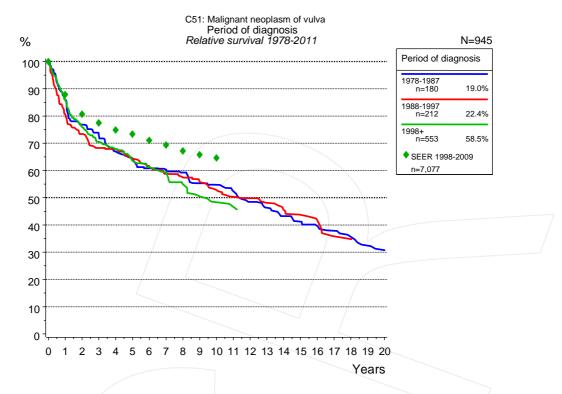


Figure 1a. Relative survival of patients with vulva cancer by period of diagnosis. Included in the evaluation are 945 cases diagnosed between 1978 and 2011.

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 1998 to 2009, and are represented by green 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.



B : 1 ();								
Period of diagnosis								
	1978-	1987	1988-	1997	1998+			
	n=180		n=2	212	n=553			
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %		
0	100.0	100.0	100.0	100.0	100.0	100.0		
1	82.2	85.9	77.4	80.5	81.9	85.7		
2	70.6	76.8	68.4	73.3	70.0	76.0		
3	63.9	72.8	61.7	68.2	62.7	70.5		
4	56.7	66.9	59.3	67.7	58.5	67.8		
5	52.2	64.2	54.5	64.4	53.6	63.6		
6	47.8	60.8	50.7	61.4	50.1	61.1		
7	45.6	60.3	47.3	58.8	47.3	59.3		
8	42.8	59.2	45.3	57.4	42.2	55.0		
9	38.3	55.3	42.8	56.0	37.6	50.4		
10	36.7	54.7	39.3	52.8	35.6	48.3		
11	33.9	52.4	36.8	50.3	33.9	46.6		
12	30.0	48.4	35.8	49.8	32.1	44.2		
13	27.8	46.3	33.5	48.1	32.1	42.4		
14	25.0	43.3	31.1	45.5				
15	23.3	41.2	29.1	43.7				
16	21.7	39.6	27.5	41.6				
17	19.9	37.9	22.8	35.8				
18	18.2	35.6	22.8	34.8				
19	16.0	32.4	21.6	32.6				
20	14.8	30.7	21.6	30.4				

Table 1b. Observed (obs.) and relative (rel.) survival of patients with vulva cancer by period of diagnosis for period 1978-2011 (N=945).

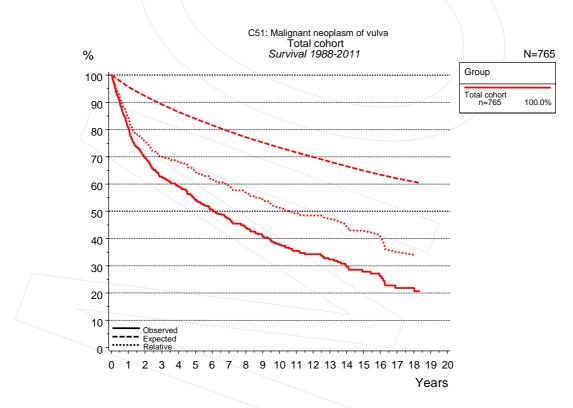


Figure 2a. Observed, expected and relative survival of the total cohort with vulva cancer. Included in the evaluation are 765 cases diagnosed between 1988 and 2011.

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	Group	
	Total	cohort
	n=7	
Years	obs. %	rel. %
0	100.0	100.0
1	80.6	84.3
2	69.6	75.4
3	62.6	70.0
4	59.1	68.2
5	54.2	64.3
6	50.5	61.8
7	47.4	59.4
8	44.0	56.8
9	40.7	54.1
10	37.7	51.3
11	35.5	49.2
12	34.3	48.4
13	32.3	47.2
14	29.7	44.4
15	27.9	42.7
16	26.3	40.7
17	21.8	35.0
18	21.8	34.0
19	20.7	31.9
20	20.7	29.7

Table 2b. Observed (obs.) and relative (rel.) survival of the total cohort with vulva cancer for period 1988-2011 (N=765).

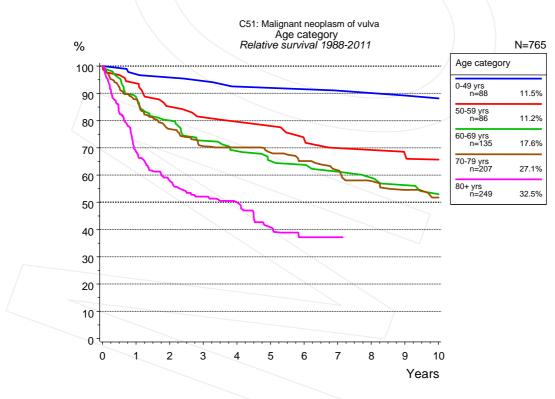


Figure 3a. Relative survival of patients with vulva cancer by age category. Included in the evaluation are 765 cases diagnosed between 1988 and 2011.

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Age category										
	0-49 yrs 50-59 yrs			60-69 yrs		70-79 yrs		80+ yrs		
	n=88 n=86		86	n=135		n=207		n=249		
Years	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
1	97.7	97.0	94.2	93.7	87.8	88.6	85.7	87.7	61.4	68.5
2	96.5	95.8	84.6	85.1	78.9	80.0	72.9	76.9	46.3	57.9
3	95.1	94.5	80.5	81.2	70.7	72.6	64.4	70.6	38.0	52.1
4	92.0	92.5	79.0	79.6	66.5	68.8	63.2	70.1	31.5	50.0
5	92.0	92.0	77.4	78.0	62.0	65.2	58.0	68.2	22.4	40.8
6	92.0	91.5	71.7	73.2	60.8	63.8	52.9	65.1	17.6	37.2
7	90.0	91.0	67.6	69.9	57.8	61.2	48.0	61.7	15.7	37.2
8	90.0	90.1	67.6	69.2	54.4	59.0	42.7	57.8		
9	87.6	89.2	65.1	67.5	51.0	56.3	37.0	54.6		
10	87.6	88.1	62.6	65.7	47.4	52.9	32.9	51.8		

Table 3b. Observed (obs.) and relative (rel.) survival of patients with vulva cancer by age category for period 1988-2011 (N=765).

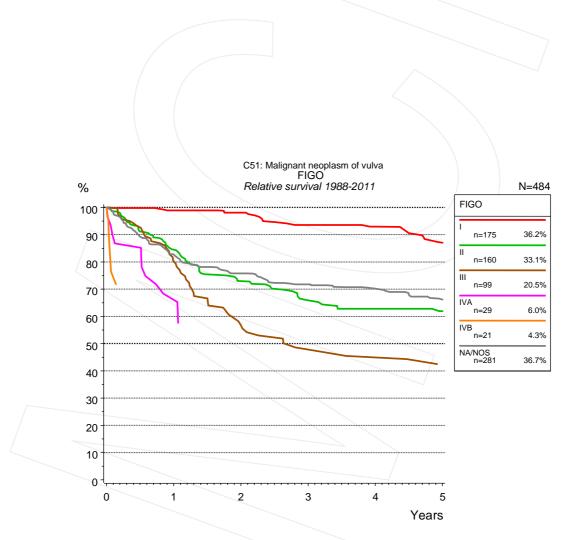


Figure 4a. Relative survival of patients with vulva cancer by FIGO. For 695 of 765 cases diagnosed between 1988 and 2011 valid data could be obtained for this item. For a total of 484 cases an evaluable classification was established. The grey line represents the subgroup of 281 patients with missing values regarding FIGO (36.7% of 765 patients, the percent values of all other categories are related to n=484).

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FIGO												
	I		- 1	l	III n=99		IVA		IVB		NA/NOS	
	n=1	75	n=1	60			n=29		n=21		n=281	
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	95.9	98.9	79.8	84.5	77.3	80.2	65.2	66.0			79.3	82.7
2	92.6	98.0	65.5	72.9	52.8	56.7					70.6	75.8
3	85.5	93.5	56.2	65.9	44.1	47.8					64.9	71.7
4	82.3	92.9	52.6	62.8	40.5	44.9					61.3	70.2
5	75.2	87.0	48.9	61.9	36.7	42.4					56.4	66.2

Table 4b. Observed (obs.) and relative (rel.) survival of patients with vulva cancer by FIGO for period 1988-2011 (N=484).

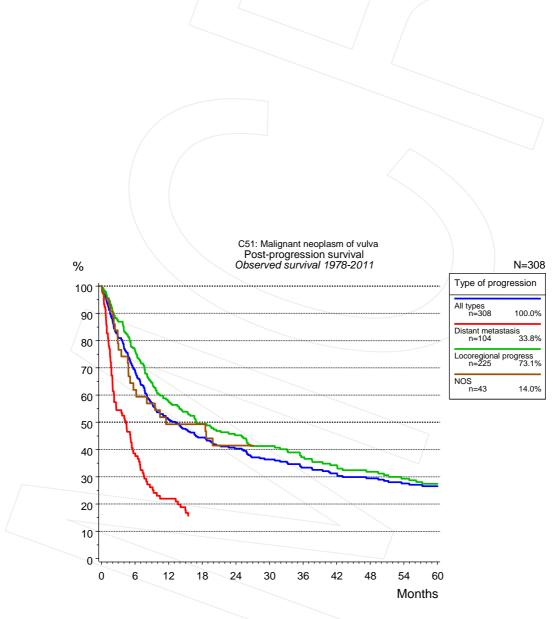


Figure 5a. Observed post-progression survival of 308 patients with vulva cancer diagnosed between 1978 and 2011 (incl. M1). These 308 patients with documented progression events during their course of disease represent 32.6% of the totally 945 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=78, 8.3%). 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 "All types" 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								
	All types	Distant metastasis	Distant metastasis Locoregional progress n=104 n=225					
	n=308	n=104						
Months	%	%	%	%				
0	100.0	100.0	100.0	100.0				
12	50.9	22.0	57.3	49.3				
24	40.3		45.2	41.5				
36	33.4		37.2					
48	29.4		31.8					
60	26.6		27.4					

Table 5b. Observed post-progression survival of patients with vulva cancer for period 1978-2011 (N=308).



Shortcuts

AS Assembled survival chart (observed, expected, relative)

CS Conditional survival

DCO Death certificate only. The death certificate provides the only notification to the registry.

MCR Munich Cancer Registry, Germany (Tumorregister München)

NA Not available

NCI National Cancer Institute, USA

NOS Not otherwise specified

OS Observed/overall survival (Kaplan-Meier estimate)

PPS Post-progression survival

RS Relative Survival. Ratio of observed and expected survival (derived from the normal population)

SEER Surveillance, Epidemiology, and End Results, USA

TTP Time to progression

Date of entry: Date of diagnosis

Event (Progression): First local recurrence, lymph node relapse or distant metastasis, unspecified

recurrence

First all-cause recurrence is illustrated by survival curves (Kaplan-Meier estimate).

First local recurrence, lymph node relapse or distant metastasis are depicted cumulatively, where

applicable ("reverse" Kaplan-Meier estimate).

UICC Union for International Cancer Control, Geneva

Recommended Citation

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