

Munich Cancer Registry



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

Cancer statistics: Survival

C52: Vaginal cancer

Year of diagnosis	1978-1997	1998-2011
Patients	173	234
Diseases	173	234
Creation date	04/01/2013	
Export date	01/03/2013	
Population (females)	2.3 m	



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C52__E.pdf

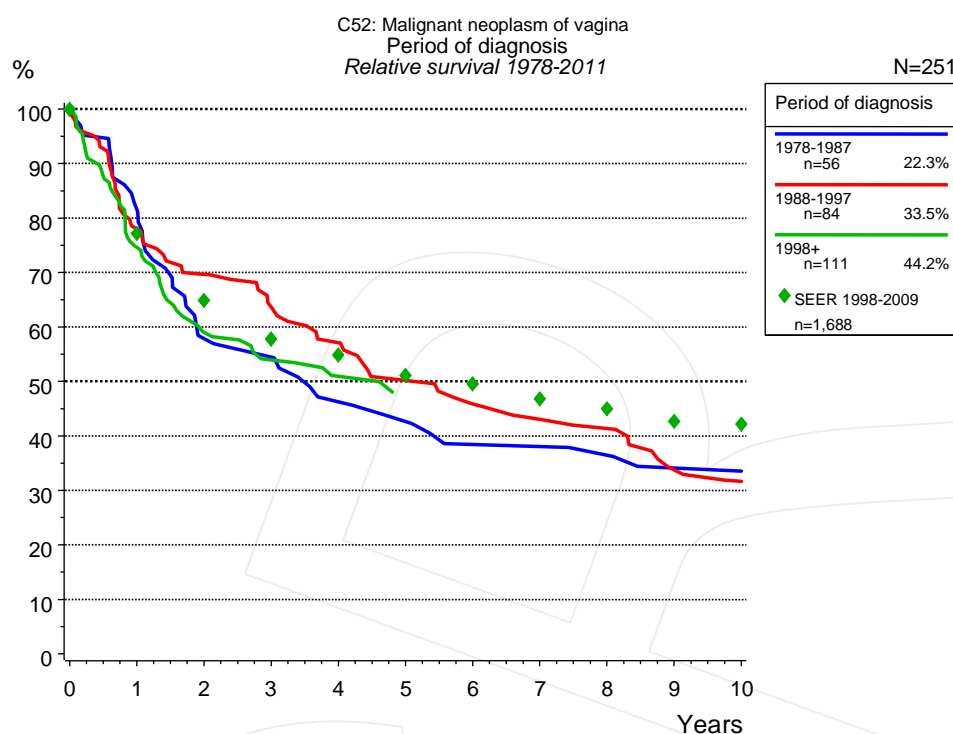


Figure 1a. Relative survival of patients with vaginal cancer by period of diagnosis. Included in the evaluation are 251 cases diagnosed between 1978 and 2011.

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.

Years	Period of diagnosis					
	1978-1987 n=56		1988-1997 n=84		1998+ n=111	
	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	80.4	81.4	76.2	78.0	71.9	74.5
2	55.4	57.8	66.5	69.6	54.9	59.0
3	51.8	54.4	59.2	63.7	49.1	53.9
4	42.9	46.3	52.0	57.1	45.0	50.9
5	39.3	42.6	43.5	50.1	41.3	47.9
6	33.9	38.4	38.7	45.9	41.3	47.2
7	33.9	38.0	36.3	43.0		
8	32.1	36.4	33.8	41.4		
9	28.6	34.1	26.6	33.7		
10	28.6	33.5	24.2	31.7		

Table 1b. Observed (obs.) and relative (rel.) survival of patients with vaginal cancer by period of diagnosis for period 1978-2011 (N=251).

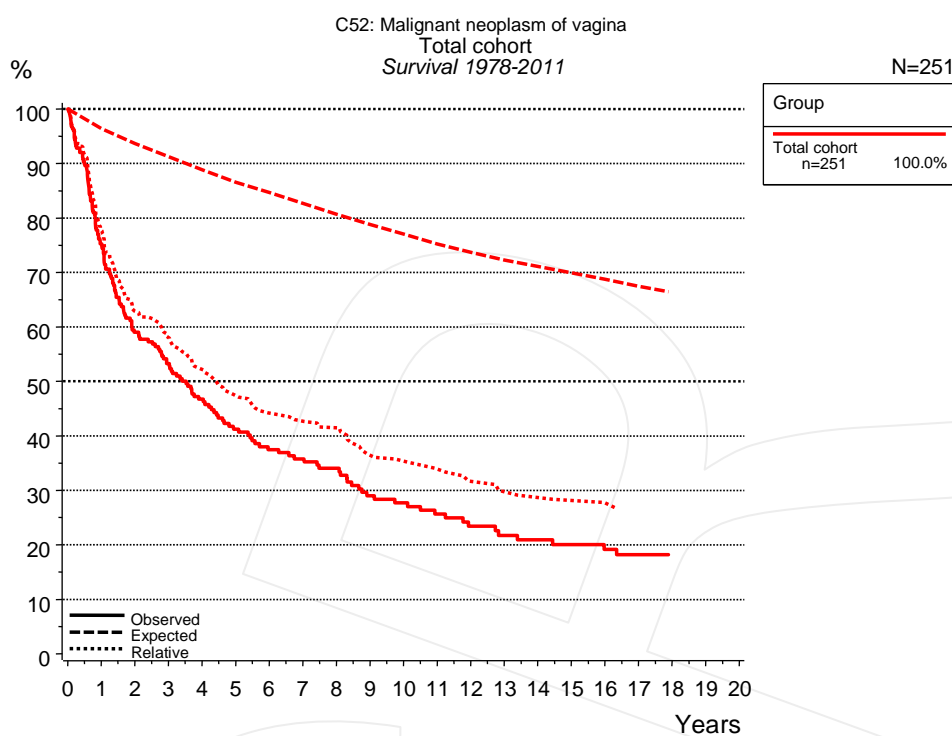


Figure 2a. Observed, expected and relative survival of the total cohort with vaginal cancer. Included in the evaluation are 251 cases diagnosed between 1978 and 2011.

Group		
Total cohort n=251		
Years	obs. %	rel. %
0	100.0	100.0
1	75.2	77.7
2	59.0	62.9
3	53.2	58.0
4	46.7	52.2
5	41.2	47.4
6	37.5	44.2
7	35.8	42.7
8	34.0	41.5
9	29.0	36.4
10	27.7	35.4
11	25.7	33.9
12	23.4	31.7
13	21.7	29.7
14	20.9	28.7
15	20.0	28.2
16	19.1	27.7
17	18.2	26.6
18	18.2	26.6
19	18.2	26.5
20	18.2	26.5

Table 2b. Observed (obs.) and relative (rel.) survival of the total cohort with vaginal cancer for period 1978-2011 (N=251).

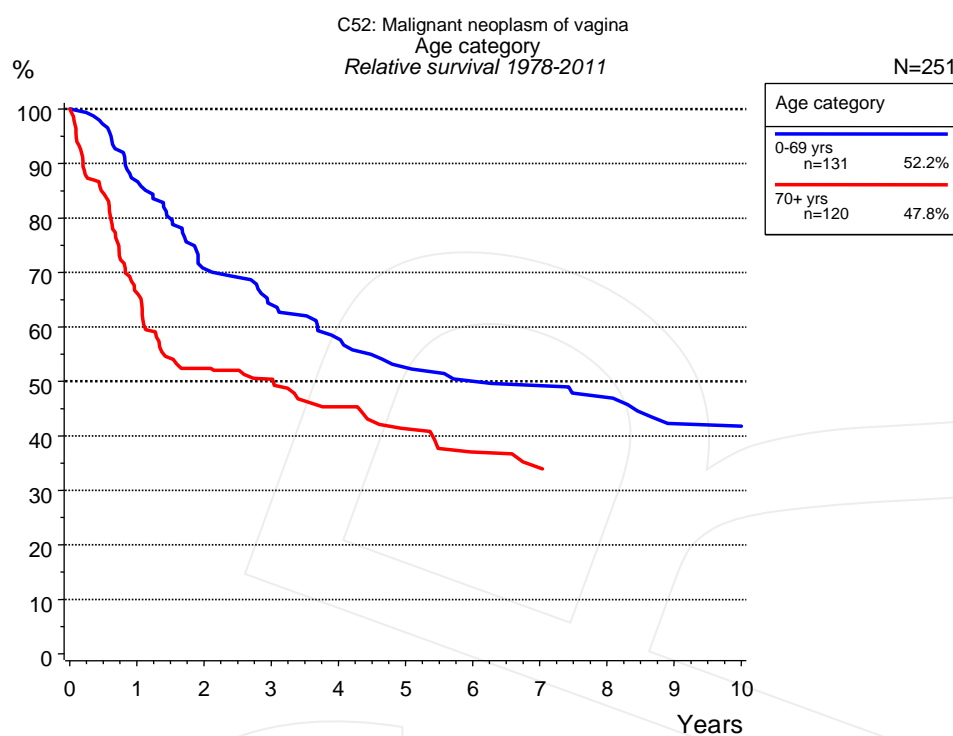


Figure 3a. Relative survival of patients with vaginal cancer by age category. Included in the evaluation are 251 cases diagnosed between 1978 and 2011.

Years	Age category			
	0-69 yrs n=131		70+ yrs n=120	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	86.9	86.7	62.3	66.2
2	69.9	70.7	46.7	52.4
3	63.2	64.1	42.0	50.4
4	57.0	57.8	35.2	45.3
5	51.4	52.6	29.8	41.3
6	48.4	50.0	25.0	37.0
7	47.4	49.2	22.5	34.1
8	45.2	47.0	21.3	33.9
9	39.4	42.2		
10	39.4	41.8		

Table 3b. Observed (obs.) and relative (rel.) survival of patients with vaginal cancer by age category for period 1978-2011 (N=251).

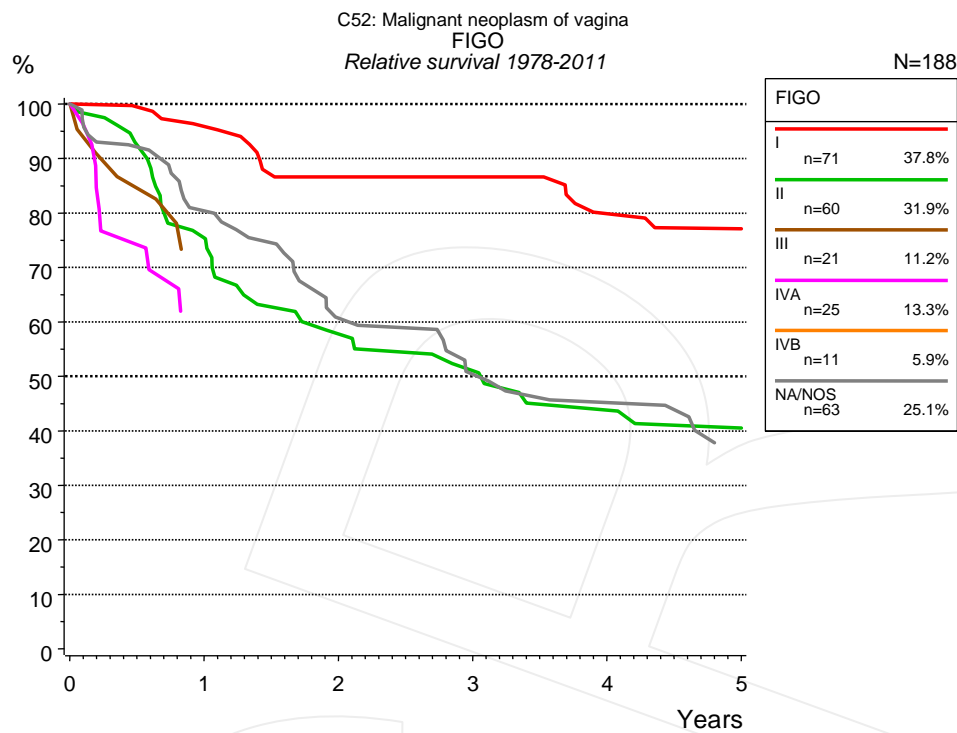


Figure 4a. Relative survival of patients with vaginal cancer by FIGO. For 201 of 251 cases diagnosed between 1978 and 2011 valid data could be obtained for this item. For a total of 188 cases an evaluable classification was established. The grey line represents the subgroup of 63 patients with missing values regarding FIGO (25.1% of 251 patients, the percent values of all other categories are related to n=188). Subgroups with sample size <15 are dropped from the chart.

		FIGO											
		I n=71		II n=60		III n=21		IVA n=25		IVB n=11		NA/NOS n=63	
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		94.2	95.9	74.5	75.4							77.3	80.4
2		83.5	86.6	55.1	57.8							55.4	60.7
3		83.5	86.6	48.0	51.0							44.7	50.4
4		73.7	79.9	40.6	43.8							39.3	45.2
5		70.4	77.1	36.4	40.5							31.2	36.1

Table 4b. Observed (obs.) and relative (rel.) survival of patients with vaginal cancer by FIGO for period 1978-2011 (N=188).

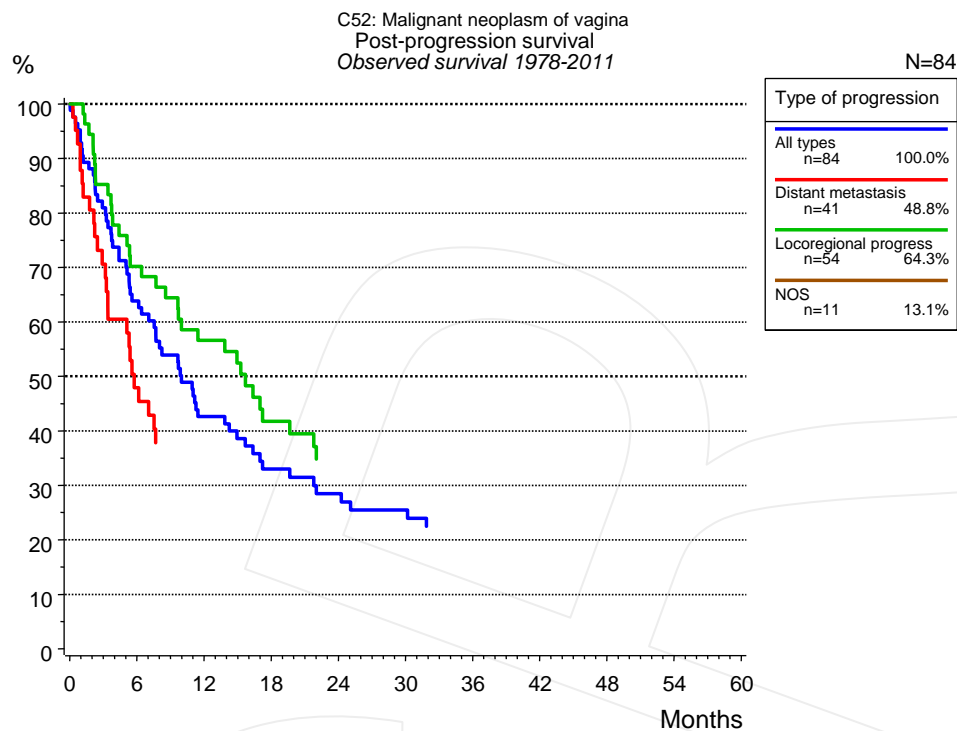


Figure 5a. Observed post-progression survival of 84 patients with vaginal cancer diagnosed between 1978 and 2011 (incl. M1). These 84 patients with documented progression events during their course of disease represent 33.5% of the totally 251 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=35, 13.9%). 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. Subgroups with sample size <15 are dropped from the chart.

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 potentially considered in more than one subgroup.

Months	Type of progression			
	All types n=84	Distant metastasis n=41	Locoregional progress n=54	NOS n=11
	%	%	%	%
0	100.0	100.0	100.0	100.0
12	42.6		56.6	
24	28.5		34.8	

Table 5b. Observed post-progression survival of patients with vaginal cancer for period 1978-2011 (N=84).

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

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