Munich Cancer Registry



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ICD-10 D05: Breast cancer i.s. (women)

Survival

Year of diagnosis	1988-1997	1998-2014
Patients	667	4,862
Diseases	677	4,938
Cases evaluated	533	3,871
Creation date	03/02/2016	
Export date	12/23/2015	



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/sD05f_E-ICD-10-D05-Breast-cancer-i.s.-women-survival.pdf

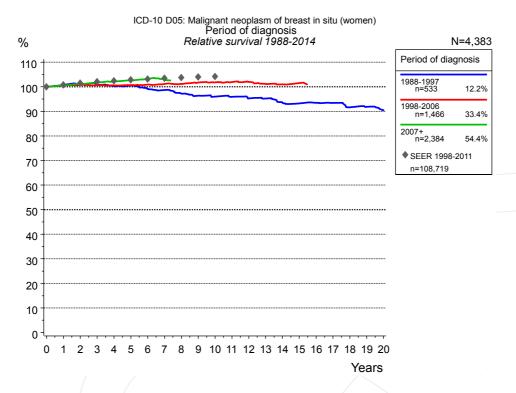


Figure 1a. Relative survival of patients with breast cancer i.s. (women) by period of diagnosis. Included in the evaluation are 4,383 cases diagnosed between 1988 and 2014.

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 2011, and are represented by gray 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-		1998-	_	200	7+	
	n=533		n=1,466		n=2,	384	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %	
0	100.0	100.0	100.0	100.0	100.0	100.0	
1	99.6	100.7	99.6	100.5	99.6	100.5	
2	98.7	101.0	98.9	100.6	99.3	101.1	
3	97.3	100.9	98.0	100.6	98.8	101.7	
4	95.6	100.2	96.9	100.5	98.3	102.2	
5	94.8	100.5	96.1	100.7	97.8	102.7	
6	92.3	99.2	95.3	100.9	97.1	103.2	
7	90.8	98.7	94.4	101.1	95.4	102.7	
8	88.4	97.2	93.3	101.1			
9	86.7	96.3	92.7	101.7			
10	85.3	96.0	91.5	101.8			
11	84.1	95.9	90.3	101.9			
12	82.5	95.2	89.0	101.9			
13	81.5	95.2	87.0	101.1			
14	78.8	93.5	85.4	101.0			
15	77.6	93.2	85.0	101.5			
16	76.7	93.5					
17	75.5	93.4					
18	72.7	91.7					
19	71.6	91.8					
20	69.3	90.4					

Table 1b. Observed (obs.) and relative (rel.) survival of patients with breast cancer i.s. (women) by period of diagnosis for period 1988-2014 (N=4,383).



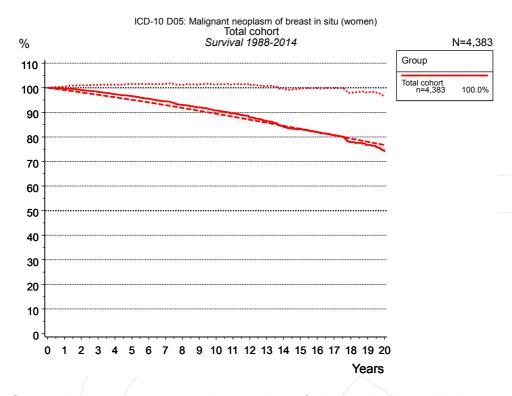


Figure 2a. Observed, expected and relative survival of the total cohort with breast cancer i.s. (women). Included in the evaluation are 4,383 cases diagnosed between 1988 and 2014.

	Group		
	Total	cohort	
	n=4,		
Years	obs. %		
0	100.0	100.0	
1	99.6	100.5	
2	99.1	100.9	
3	98.3	101.2	
4	97.3	101.2	
5	96.6	101.6	
6	95.5	101.6	
7	94.4	101.6	
8	93.0	101.3	
9	92.0	101.5	
10	90.8	101.4	
11	89.5	101.4	
12	88.0	101.1	
13	86.5	100.7	
14	84.1	99.5	
15	83.1	99.7	
16	82.1	99.8	
17	80.8	99.9	
18	77.9	98.0	
19	76.7	98.2	
20	74.2	96.7	

Table 2b. Observed (obs.) and relative (rel.) survival of the total cohort with breast cancer i.s. (women) for period 1988-2014 (N=4,383).

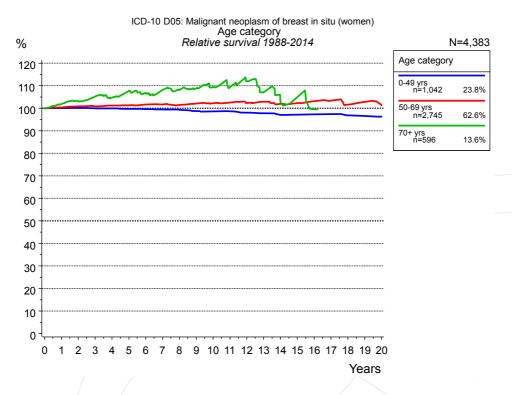


Figure 3a. Relative survival of patients with breast cancer i.s. (women) by age category. Included in the evaluation are 4,383 cases diagnosed between 1988 and 2014.

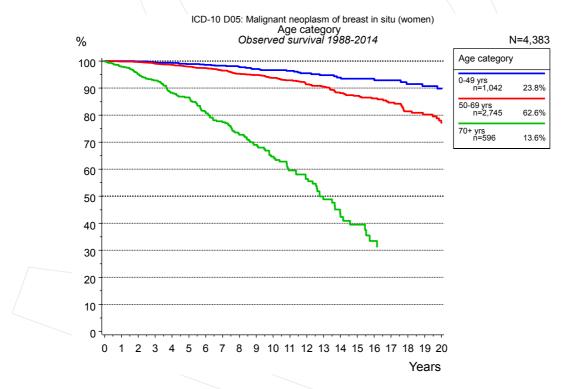


Figure 3b. Observed survival of patients with breast cancer i.s. (women) by age category. Included in the evaluation are 4,383 cases diagnosed between 1988 and 2014.

Age category								
	0-49	yrs	50-69	9 yrs	70+ yrs			
	n=1,042		n=2,745		n=5	596		
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %		
0	100.0	100.0	100.0	100.0	100.0	100.0		
1	100.0	100.1	99.8	100.4	97.9	101.9		
2	99.9	100.1	99.6	100.8	95.1	103.0		
3	99.5	99.9	99.0	100.9	92.9	105.2		
4	99.3	99.9	98.5	101.1	88.3	104.7		
5	98.9	99.7	97.9	101.3	86.6	107.7		
6	98.6	99.6	97.4	101.7	81.0	106.7		
7	98.3	99.5	96.5	101.7	77.4	108.1		
8	97.9	99.3	95.3	101.4	72.7	108.1		
9	97.1	98.8	94.8	102.1	69.0	108.9		
10	96.6	98.6	93.8	102.3	64.6	109.3		
11	96.4	98.7	92.9	102.5	59.5	109.3		
12	95.5	98.0	91.4	102.4	56.4	112.1		
13	94.8	97.8	90.6	102.9	48.9	107.1		
14	93.9	97.0	88.2	101.9	42.3	102.7		
15	93.5	97.2	87.1	102.3	39.5	105.0		
16	93.5	97.3	86.2	103.2	33.5	99.6		
17	92.9	97.4	84.6	103.4	31.4	104.3		
18	91.5	96.9	81.4	101.6				
19	90.7	96.6	80.2	102.8				
20	89.8	96.3	77.2	101.4				

Table 3c. Observed (obs.) and relative (rel.) survival of patients with breast cancer i.s. (women) by age category for period 1988-2014 (N=4,383).



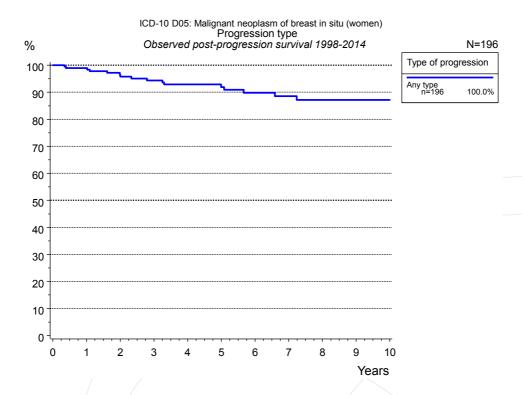


Figure 5c. Observed post-progression survival of 196 patients with breast cancer i.s. (women) diagnosed between 1998 and 2014. These 196 patients with documented progression events during their course of disease represent 5.1 % of the totally 3,824 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=8, 0.2 %).

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 n=196		
Years	%	
0	100.0	
1	98.9	
2	96.5	
3	94.4	
4	92.9	
5	91.9	
6	89.8	
7	88.5	
8	87.1	
9	87.1	
10	87.1	

Table 5d. Observed post-progression survival of patients with breast cancer i.s. (women) for period 1998-2014 (N=196).

Shortcuts

Munich Cancer Registry, Germany						
National Cancer Institute, USA						
SEER Surveillance, Epidemiology, and End Results, USA						
Union for International Can	cer Control, Geneva					
Death certificate only	Death certificate provides the only notification to the registry.					
Not available						
Not otherwise specified						
Overall/Observed survival	Overall/Observed survival (Kaplan-Meier estimate) Date of entry: diagnosis Event: death from any cause					
Relative survival	Survival compared to "general population", ratio of observed to expected survival (Ederer II method), reflecting cancer specific survival					
Assembled survival	Assembled chart of observed, expected, relative survival					
Conditional survival	Survival probability under the condition of surviving a given period of time					
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)					
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					
	National Cancer Institute, L Surveillance, Epidemiology Union for International Can Death certificate only Not available Not otherwise specified Overall/Observed survival Relative survival Assembled survival Conditional survival Time to progression					

Recommended Citation

Munich Cancer Registry. Survival ICD-10 D05: Breast cancer i.s. (women) [Internet]. 2016 [updated 2016 Mar 2; cited 2016 May 1]. Available from: http://www.tumorregister-muenchen.de/en/facts/surv/sD05f_E-ICD-10-D05-Breast-cancer-i.s.-women-survival.pdf

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