Munich Cancer Registry



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

Survival

Year of diagnosis	1988-1997	1998-2020
Patients	675	7,303
Diseases	686	7,430
Cases evaluated	539	5,764
Creation date	04/15/2022	
Database export	12/20/2021	
Population (females)	2 48 m	



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

https://www.tumorregister-muenchen.de/en/facts/surv/sD05f_E-ICD-10-D05-Breast-cancer-i.s.-women-survival.pdf

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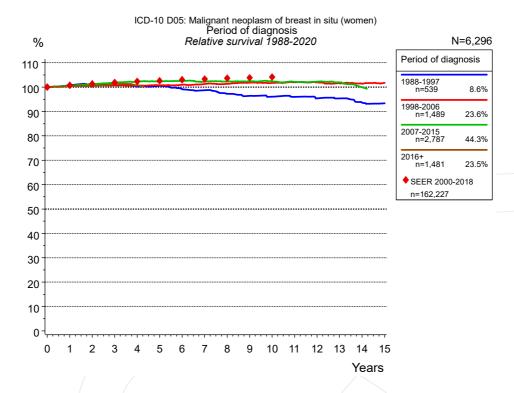


Figure 1a. Relative survival of patients with breast cancer i.s. (women) by period of diagnosis. Included in the evaluation are 6,296 cases diagnosed between 1988 and 2020.

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		1998-2006		2007-2015		2016+	
	n=539		n=1,489		n=2,787		n=1,481	
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	99.6	100.7	99.7	100.5	99.6	100.5	99.6	100.3
2	98.7	101.0	98.9	100.7	99.3	101.2	98.7	100.4
3	97.4	100.9	98.1	100.7	98.9	101.8	98.6	101.1
4	95.7	100.2	96.9	100.6	98.3	102.2	97.3	100.7
5	94.9	100.5	96.1	100.7	97.2	102.3		
6	92.4	99.2	95.3	101.0	96.3	102.5		
7	90.9	98.7	94.5	101.2	94.9	102.2		
8	88.6	97.3	93.4	101.3	93.7	102.2		
9	86.8	96.4	92.6	101.8	92.6	102.3		
10	85.4	96.1	91.3	101.7	91.2	102.3		
11	84.3	96.0	90.2	102.0	89.7	102.1		
12	82.7	95.3	88.8	101.9	88.5	102.2		
13	81.7	95.3	87.0	101.5	86.7	101.9		
14	79.0	93.6	85.3	101.4	84.3	99.9		
15	77.8	93.4	84.1	101.7				
Median								

Table 1b. Observed (obs.) and relative (rel.) survival of patients with breast cancer i.s. (women) by period of diagnosis for period 1988-2020 (N=6,296).

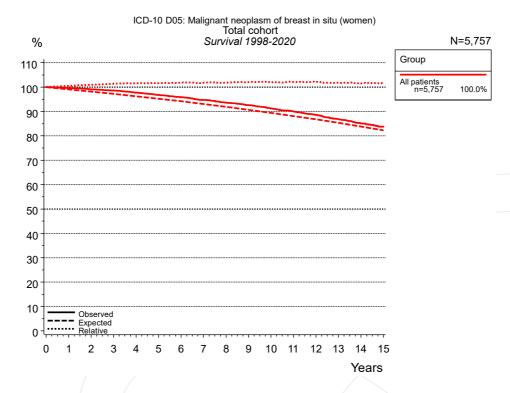


Figure 2a. Observed, expected and relative survival of the total cohort with breast cancer i.s. (women). Included in the evaluation are 5,757 cases diagnosed between 1998 and 2020.

Group		
	All pa	tients
	n=5,	757
Years	obs. %	rel. %
0	100.0	100.0
1	99.6	100.5
2	99.1	100.9
3	98.6	101.4
4	97.8	101.5
5	96.8	101.6
6	95.9	101.8
7	94.7	101.7
8	93.6	101.8
9	92.6	102.0
10	91.2	102.0
11	90.0	102.1
12	88.6	102.1
13	86.8	101.8
14	85.0	101.5
15	83.7	101.8
Median		

Table 2b. Observed (obs.) and relative (rel.) survival of the total cohort with breast cancer i.s. (women) for period 1998-2020 (N=5,757).

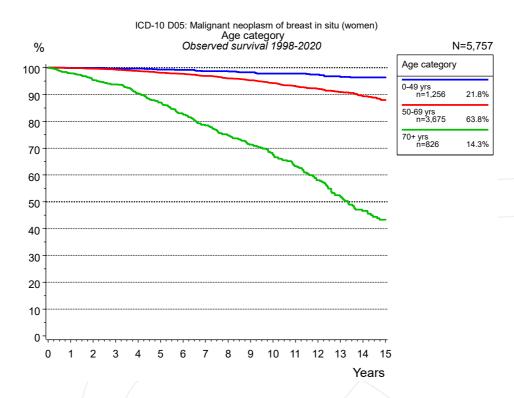


Figure 3a. Observed survival of patients with breast cancer i.s. (women) by age category. Included in the evaluation are 5,757 cases diagnosed between 1998 and 2020.

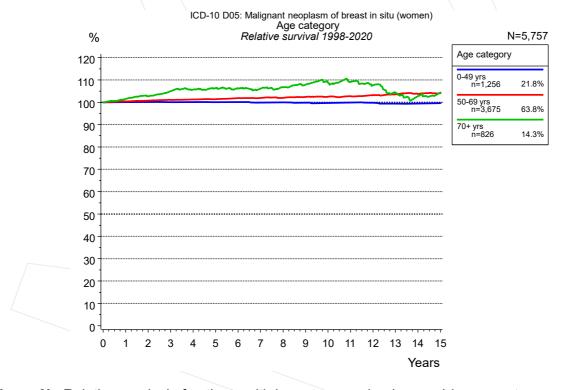


Figure 3b. Relative survival of patients with breast cancer i.s. (women) by age category. Included in the evaluation are 5,757 cases diagnosed between 1998 and 2020.

Age category						
	0-49	yrs	50-69	9 yrs	70+ yrs	
	n=1,	256	n=3,	675	n=826	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	99.9	100.0	99.9	100.4	97.9	101.5
2	99.9	100.1	99.6	100.8	95.4	102.7
3	99.7	100.1	99.3	101.1	93.8	105.0
4	99.6	100.1	98.7	101.2	90.5	105.7
5	99.3	100.0	98.1	101.4	87.0	106.4
6	99.2	100.1	97.7	101.8	82.7	106.2
7	98.7	99.8	96.9	101.9	78.5	106.2
8	98.7	99.9	96.0	102.0	74.8	106.8
9	98.3	99.8	95.3	102.4	71.3	107.9
10	97.8	99.7	94.2	102.5	67.4	108.7
11	97.8	99.9	93.1	102.7	63.3	109.1
12	97.5	99.8	92.2	103.2	58.1	107.6
13	96.6	99.4	91.0	103.6	52.0	104.4
14	96.3	99.4	89.4	103.8	46.6	102.7
15	96.3	99.6	88.0	104.2	43.3	104.4
Median					13.3	

Table 3c. Observed (obs.) and relative (rel.) survival of patients with breast cancer i.s. (women) by age category for period 1998-2020 (N=5,757).



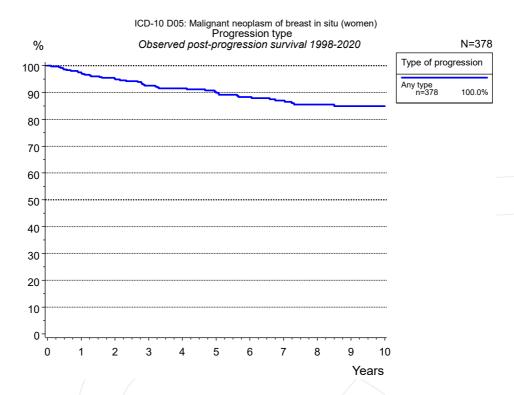


Figure 5c. Observed post-progression survival of 378 patients with breast cancer i.s. (women) diagnosed between 1998 and 2020. These 378 patients with documented progression events during their course of disease represent 6.6 % of the totally 5,736 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=32, 0.6 %).

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		
Years	n=378 %	
0	100.0	
1	97.5	
2	95.2	
3	92.6	
4	91.5	
5	90.0	
6	88.3	
7	87.0	
8	85.5	
9	84.9	
10	84.9	

Table 5d. Observed post-progression survival of patients with breast cancer i.s. (women) for period 1998-2020 (N=378).

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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