Munich Cancer Registry



- Baseline statistics
- Selection Matrix
- Homepage
- Deutsch

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

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

Cancer statistics: Survival

C50: Breast cancer (women)

Year of diagnosis	1988-2012
Patients	57,128
Diseases	60,160
Cases evaluated	33,692
Creation date	03/25/2014
Export date	02/12/2014
Population (females)	2.3 m



http://www.tumorregister-muenchen.de/en/facts/surv/surv_C50f_E.pdf

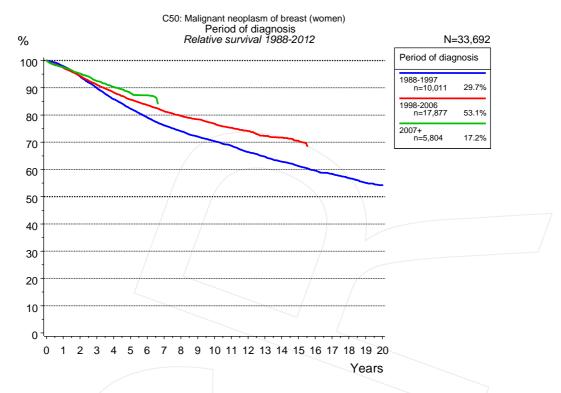


Figure 1a. Relative survival of patients with breast cancer (women) by period of diagnosis. Included in the evaluation are 33,692 cases diagnosed between 1988 and 2012.

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 populationbased statistics since 1988, 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.

	F	Period	of diag	anosis	;	
	1988-			2006	200)7+
	n=10	,011	n=17	,877	n=5,	804
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	96.2	97.9	95.6	97.3	95.9	97.6
2	91.0	94.1	91.0	94.3	92.2	95.2
3	85.5	89.9	86.5	91.1	88.2	92.4
4	80.2	85.8	82.5	88.3	84.8	90.2
5	75.6	82.3	78.7	85.6	81.5	88.1
6	71.5	79.1	75.6	83.6	79.6	87.2
7	67.7	76.2	72.3	81.3		
8	64.7	74.1	69.7	79.6		
9	61.9	72.1	67.5	78.4		
10	59.4	70.4	64.9	76.8		
11	57.0	68.7	62.5	75.3		
12	54.1	66.4	60.3	74.1		
13	51.7	64.7	57.8	72.3		
14	49.3	62.9	56.3	71.7		
15	47.1	61.2	54.3	70.5		
16	45.0	59.6				
17	43.1	58.3				
18	41.2	56.9				
19	39.0	55.1				
20	37.8	54.3				

Table 1b. Observed (obs.) and relative (rel.) survival of patients with breast cancer (women) by period of diagnosis for period 1988-2012 (N=33,692).

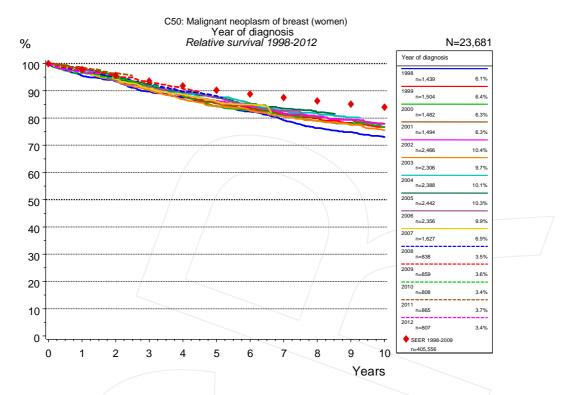


Figure 1c. Relative survival of patients with breast cancer (women) by year of diagnosis. Included in the evaluation are 23,681 cases diagnosed between 1998 and 2012.

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 red diamonds in order to facilitate comparisons between MCR and SEER.

						Year of	of diag	nosis						
	19	98	19	99	20	00	20	01	20	02	20	03	20	04
	n=1,	439	n=1,	504	n=1,	482	n=1,	494	n=2,	466	n=2,	306	n=2,	388
Years	obs. %	rel. %	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	100.0	100.0
1	93.7	95.5	95.5	97.2	96.0	97.8	96.1	97.7	96.2	98.0	95.5	97.2	95.8	97.4
2	90.2	93.4	91.0	94.2	92.2	95.5	91.4	94.4	91.1	94.4	90.4	93.6	91.3	94.5
3	85.2	89.7	86.8	91.5	87.1	91.9	87.6	91.9	86.5	91.2	85.7	90.2	86.6	91.1
4	81.6	87.5	82.2	88.1	82.3	88.2	83.1	88.5	82.7	88.6	81.1	86.9	83.5	89.2
5	77.4	84.3	78.5	85.5	77.1	84.2	79.0	85.3	79.2	86.3	77.4	84.3	80.8	87.6
6	74.3	82.3	75.6	83.8	74.6	82.8	76.0	83.3	76.2	84.4	74.6	82.6	77.1	85.1
7	70.3	79.1	72.6	81.6	71.7	80.9	73.2	81.4	72.4	81.7	71.5	80.5	73.6	82.5
8	66.7	76.3	69.8	79.8	68.9	79.0	70.9	80.1	70.1	80.6	68.9	78.9	71.7	81.7
9	64.3	74.8	67.4	78.2	66.8	77.9	69.2	79.4	68.0	79.3	66.4	77.5	69.2	80.2
10	61.7	73.0	65.1	76.7	64.5	76.6	66.8	77.9	65.1	77.8	63.6	75.5		

						Year of	of diag	nosis						
cont'd	20	05	20	06	20	07	20	08	20	09	20	10	20	11
	n=2,	442	n=2,	356	n=1,	627	n=8	338	n=8	359	n=8	808	n=8	365
Years	obs. %	rel. %	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	100.0	100.0
1	95.5	97.2	95.3	96.9	95.5	97.4	95.7	97.2	96.4	98.0	95.2	96.6	97.0	98.5
2	91.1	94.3	91.0	93.9	91.1	94.2	91.9	94.8	92.4	95.3	91.8	94.6	93.5	96.4
3	87.4	91.9	87.1	91.2	86.6	90.8	88.1	92.3	88.7	92.9	87.9	91.8		
4	83.7	89.4	84.2	89.7	83.3	88.6	84.4	89.7	85.4	90.8				
5	80.5	87.5	80.9	87.7	79.7	85.9	81.5	88.0						
6	77.3	85.3	76.6	84.5	77.7	85.0								
7	74.4	83.4	73.7	82.6										
8	71.8	82.1												



Table 1d. Observed (obs.) and relative (rel.) survival of patients with breast cancer (women) by year of diagnosis for period 1998-2012 (N=23,681).

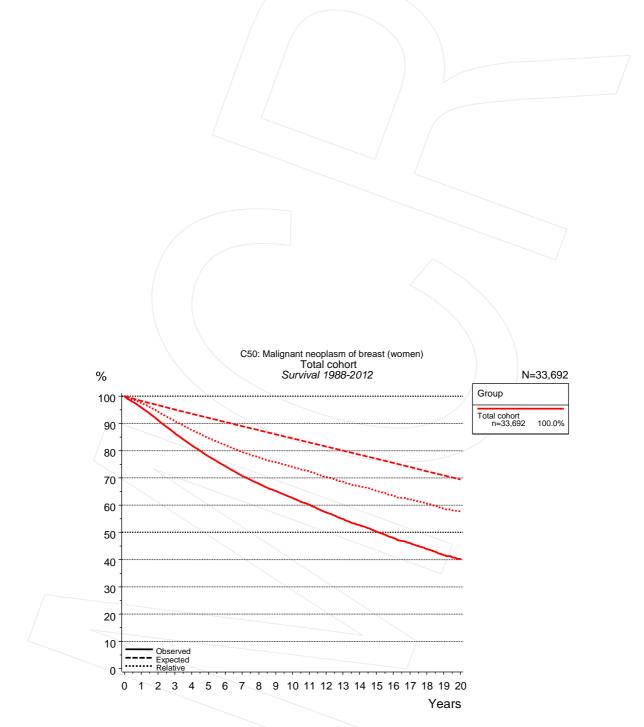
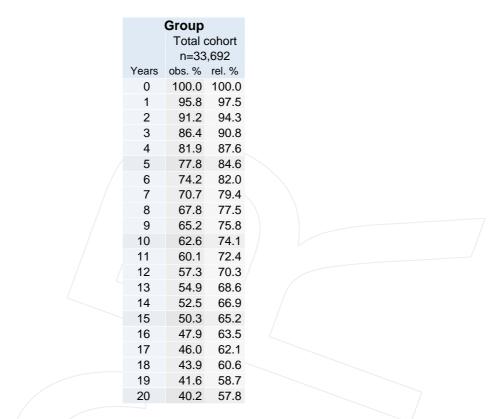
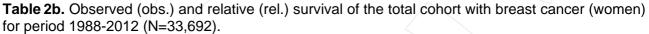


Figure 2a. Observed, expected and relative survival of the total cohort with breast cancer (women). Included in the evaluation are 33,692 cases diagnosed between 1988 and 2012.





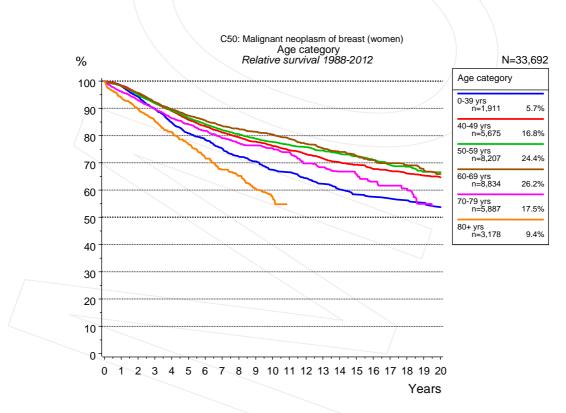


Figure 3a. Relative survival of patients with breast cancer (women) by age category. Included in the evaluation are 33,692 cases diagnosed between 1988 and 2012.

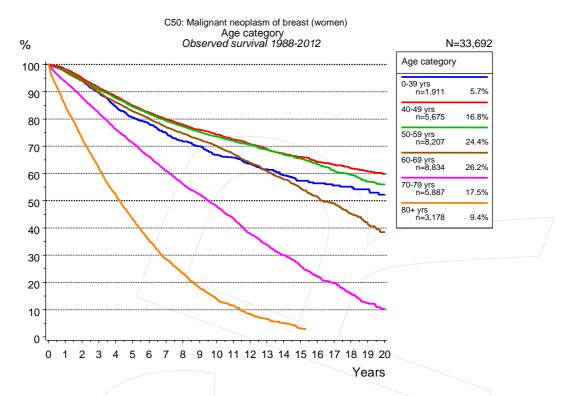


Figure 3b. Observed survival of patients with breast cancer (women) by age category. Included in the evaluation are 33,692 cases diagnosed between 1988 and 2012.

					Age	categ	ory					
	0-39	9 yrs	40-4	9 yrs	50-5	9 yrs	60-6	9 yrs	70-7	9 yrs	80+	yrs
	n=1	,911	n=5	,675	n=8	,207	n=8,	,834	n=5,	887	n=3,	,178
Year	s 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	98.1	98.1	98.2	98.4	97.8	98.2	97.2	98.1	93.7	96.2	84.8	93.9
2	94.1	94.2	95.0	95.4	94.2	94.9	93.9	95.7	87.8	92.9	72.8	89.7
3	89.5	89.7	91.5	92.0	90.7	91.9	89.7	92.3	82.2	89.8	61.9	85.3
4	84.6	84.8	88.3	89.0	87.6	89.2	86.1	89.6	76.2	86.4	52.2	81.3
5	80.5	80.8	84.9	85.8	84.5	86.4	82.9	87.3	71.3	84.1	43.3	76.8
6	78.0	78.4	82.3	83.4	81.8	84.2	80.0	85.5	66.2	81.7	35.1	71.7
7	74.9	75.2	79.8	81.1	79.3	82.1	77.0	83.5	60.8	79.0	28.4	67.5
8	71.8	72.3	77.9	79.4	77.3	80.5	74.7	82.4	56.1	77.2	23.2	65.2
9	70.0	70.5	76.1	77.7	75.2	78.9	72.5	81.4	52.3	76.3	18.0	60.5
10	66.9	67.4	74.3	76.2	73.6	77.7	70.1	80.4	48.0	75.3	14.0	57.5
11	65.8	66.5	72.4	74.6	71.9	76.6	67.1	78.8	43.6	73.9		
12	63.6	64.3	70.7	73.1	70.5	75.7	63.9	77.0	38.0	69.8		
13	61.5	62.3	68.9	71.6	68.8	74.5	60.8	75.3	33.8	68.4		
14	59.2	60.2	67.3	70.2	67.0	73.4	57.8	74.0	30.0	66.8		
15	57.3	58.3	66.1	69.3	65.3	72.4	54.7	72.6	26.0	65.6		
16	56.4	57.5	64.3	67.8	63.4	71.1	51.4	71.0	22.3	63.1		
17	55.6	56.9	63.2	67.0	60.8	69.2	49.0	69.9	19.6	61.6		
18	55.1	56.2	61.9	66.1	59.5	68.6	45.2	69.1	15.9	60.5		
19	54.2	55.3	60.7	65.3	56.9	66.7	41.4	67.3	12.5	54.9		
20	52.2	53.7	59.8	64.6	56.0	66.5	38.4	65.9				

Table 3c. Observed (obs.) and relative (rel.) survival of patients with breast cancer (women) by age category for period 1988-2012 (N=33,692).

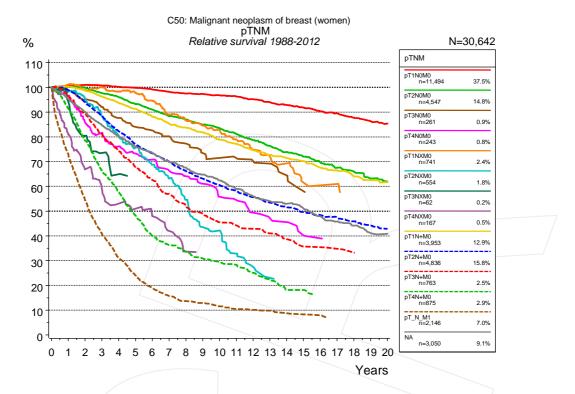


Figure 4a. Relative survival of patients with breast cancer (women) by pTNM. For 32,554 of 33,692 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. For a total of 30,642 cases an evaluable classification was established. The grey line represents the subgroup of 3,050 patients with missing values regarding pTNM (9.1% of 33,692 patients, the percent values of all other categories are related to n=30,642).

							pTNM							
	pT1N	IOM0	pT2N	IOM0	pT3N	IOM0	pT4N	IOM0	pT1N	XM0	pT2N	IXM0	pT3N	IXM0
	n=11	,494	n=4,	547	n=2	261	n=2	243	n=7	'41	n=5	554	n=	62
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	99.5	100.5	98.5	100.1	96.1	98.5	92.1	96.6	96.3	101.1	90.9	98.3	85.1	94.2
2	98.8	100.9	96.6	99.8	90.7	95.1	77.8	85.7	89.6	98.9	81.3	95.2	66.6	80.4
3	97.4	100.7	92.8	97.6	85.7	92.0	71.0	81.6	86.2	100.0	69.4	88.3	54.2	73.4
4	95.7	100.2	89.7	96.0	79.8	87.6	63.2	76.1	80.9	98.3	58.2	80.2	44.0	64.9
5	94.0	99.8	85.6	93.2	74.6	84.0	58.4	73.3	76.6	97.8	50.7	75.6		
6	92.2	99.1	82.0	91.0	72.1	82.5	54.3	70.8	70.5	94.5	42.5	68.7		
7	90.0	98.2	78.1	88.3	68.7	80.2	49.1	66.3	63.6	88.9	36.1	63.2		
8	88.1	97.5	75.6	87.0	64.4	77.3	45.6	64.1	59.3	86.6	28.8	54.6		
9	86.6	97.3	72.4	84.9	60.4	73.4	42.0	61.0	55.8	84.5	21.5	43.5		
10	84.8	96.8	69.8	83.5	57.8	71.5	37.1	55.7	52.3	82.6	19.6	42.1		
11	82.9	96.2	66.6	81.2	56.8	71.4	35.4	54.4	47.7	78.9	14.4	32.8		
12	80.6	95.2	63.2	78.7	54.6	70.1	30.9	49.3	43.5	74.8	11.5	27.4		
13	78.1	94.0	60.2	76.4	53.5	69.2	28.6	47.0	40.1	71.9	9.3	23.0		
14	75.8	92.8	57.1	73.9	49.2	64.4	27.4	45.5	37.7	69.2				
15	73.5	91.7	54.6	72.0	44.1	58.0	23.6	40.1	32.2	61.4				
16	71.0	90.3	51.7	69.7	42.0	56.1	22.3	39.0	30.6	60.4				
17	68.9	89.4	49.0	67.5			20.9	37.6	30.6	61.0				
18	66.2	87.7	47.1	66.0					27.2	56.5				
19	63.8	86.2	43.9	63.2					27.2	55.3				
20	62.0	85.3	42.0	62.0					27.2	54.0				

							рТNМ							
cont'd	pT4N	XM0	pT1N	I+M0	pT2N	I+M0	pT3N	I+M0	pT4N	+M0	pT_N	I_M1	N	A
	n=1	67	n=3,	953	n=4,	836	n=7		n=8		n=2,	146	n=3,	050
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	73.5	80.9	99.2	100.2	97.5	98.9	95.2	96.6	88.0	91.3	71.0	72.6	93.1	95.2
2	55.4	66.8	96.6	98.6	91.3	93.9	86.8	89.3	73.1	78.5	52.0	54.2	86.4	90.0
3	44.8	59.1	93.2	96.2	84.6	88.3	77.7	81.2	59.9	66.3	38.2	40.7	79.9	84.6
4	37.1	53.0	89.6	93.6	77.6	82.2	70.0	74.3	50.3	57.7	28.6	31.0	74.5	80.3
5	32.9	51.0	86.3	91.3	71.5	77.0	63.1	67.8	40.7	48.2	21.7	24.0	69.2	75.9
6	28.1	48.0	82.4	88.2	67.1	73.3	57.5	62.6	32.8	40.0	16.8	18.9	65.9	73.4
7	23.1	42.0	78.5	85.2	63.0	69.9	51.6	56.9	28.9	36.3	13.7	15.7	61.6	69.8
8	17.1	33.7	76.1	83.6	58.7	66.2	46.7	52.3	26.0	33.5	11.7	13.6	58.6	67.6
9			73.5	81.8	55.1	63.1	43.2	49.0	23.3	30.9	10.9	12.9	55.1	64.7
10			69.6	78.7	52.0	60.6	39.6	45.5	21.8	29.5	9.5	11.5	52.1	62.4
11			67.3	77.2	49.2	58.3	37.8	44.2	20.3	28.2	8.4	10.4	48.3	58.9
12			64.1	74.5	46.2	55.6	36.2	42.8	17.6	25.1	7.9	10.1	44.9	56.0
13			61.6	72.7	43.6	53.4	34.2	41.0	15.2	22.3	7.6	9.8	42.5	54.0
14			59.5	71.3	41.4	51.6	32.0	38.6	12.0	18.1	6.5	8.7	40.8	53.0
15			57.6	70.2	39.2	49.6	28.8	35.7	12.0	18.1	6.0	8.3	38.5	50.9
16			54.4	67.4	37.5	48.4	28.8	35.4	10.3	16.3	5.7	7.9	35.5	47.9
17			52.5	66.4	35.9	47.2	27.9	34.8	10.3	16.1			33.2	45.7
18			49.8	64.0	34.3	45.8	26.8	33.2					31.3	44.1
19			47.6	62.5	32.3	44.1	25.6	31.8					28.4	41.1
20			46.2	61.7	30.9	42.8							27.8	40.8

Table 4b. Observed (obs.) and relative (rel.) survival of patients with breast cancer (women) by pTNM for period 1988-2012 (N=30,642).

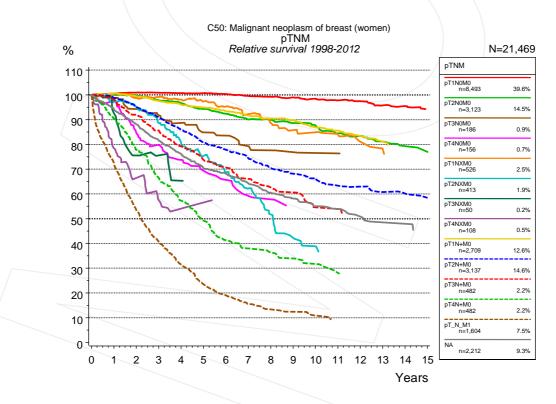


Figure 4c. Relative survival of patients with breast cancer (women) by pTNM. For 23,136 of 23,681 cases diagnosed between 1998 and 2012 valid data could be obtained for this item. For a total of 21,469 cases an evaluable classification was established. The grey line represents the subgroup of 2,212 patients with missing values regarding pTNM (9.3% of 23,681 patients, the percent values of all other categories are related to n=21,469).

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							pTNM							
	pT1N	IOM0	pT2N	IOM0	pT3N	IOM0	pT4N	IOM0	pT1N	XM0	pT2N	XM0	pT3N	IXM0
	n=8,	493	n=3,	123	n=1	86	n=1	56	n=5	526	n=4	13	n=	50
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	99.5	100.5	98.3	100.0	96.1	98.7	92.9	97.7	95.8	100.4	89.5	97.1	83.5	92.6
2	98.8	100.9	96.4	99.7	89.6	94.3	76.2	84.6	89.7	98.8	80.5	95.0	62.4	75.5
3	97.7	100.9	92.8	97.7	84.8	91.8	68.8	79.8	85.7	99.2	68.6	88.5	55.3	75.6
4	96.3	100.7	90.2	96.7	80.2	88.7	60.4	73.7	81.1	98.2	57.4	80.3	44.5	65.3
5	95.1	100.7	86.3	94.2	74.3	84.9	54.5	69.3	76.8	97.4	49.7	75.4		
6	93.5	100.3	83.1	92.4	72.0	83.6	49.7	65.7	72.1	95.3	41.6	68.8		
7	91.5	99.5	79.4	90.1	66.9	79.3	43.7	59.2	67.0	92.2	34.7	62.2		
8	90.0	99.3	77.7	89.9	64.2	77.6	42.1	57.8	61.8	88.7	26.7	51.7		
9	88.3	98.9	75.2	88.6	62.4	76.8	38.1	54.1	57.6	85.7	20.5	42.2		
10	86.4	98.4	72.8	87.5	60.2	76.5			55.3	84.9	17.8	38.8		
11	84.4	97.8	68.7	84.4	60.2	76.4			52.5	84.1				
12	82.6	97.4	66.2	83.4					48.9	81.1				
13	79.7	95.7	63.3	81.1					45.2	78.0				
14	78.1	95.5	61.0	79.3										
15			59.3	76.9										

							pTNM							
cont'd	pT4N	XM0	pT1N	I+M0	pT2N	I+M0	pT3N	I+M0	pT4N	I+M0	pT_N	I_M1	N	A
	n=1	08	n=2	709	n=3,	137	n=4	82	n=4	82	n=1,	604	n=2,	212
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	70.8	78.4	99.5	100.5	97.3	98.8	96.4	98.0	87.0	90.6	70.7	72.3	92.1	94.1
2	54.5	66.4	97.3	99.3	92.7	95.4	88.9	91.9	71.9	77.8	51.2	53.4	84.6	88.1
3	42.5	57.5	94.6	97.5	87.0	90.9	81.3	85.6	59.5	66.6	38.2	40.6	77.1	81.5
4	36.8	54.1	92.0	96.0	80.9	85.9	74.2	79.3	49.5	57.3	29.1	31.5	71.0	76.0
5	35.1	56.5	90.0	95.0	75.0	80.9	68.1	73.7	41.1	49.2	21.4	23.5	64.7	70.3
6			87.3	93.4	71.0	77.9	64.3	70.7	33.5	41.3	17.0	19.0	61.8	68.1
7			84.5	91.6	66.8	74.4	59.4	66.1	29.9	38.0	13.6	15.6	57.7	64.3
8			82.3	90.4	62.2	70.4	55.7	62.6	27.5	36.3	11.7	13.4	53.5	60.5
9			80.6	89.8	59.2	68.1	53.5	60.6	25.4	33.9	10.6	12.4	50.9	58.1
10			76.7	86.8	56.7	66.3	47.1	54.6	23.1	31.7	9.0	10.8	47.5	55.0
11			74.7	85.6	53.4	63.3	47.1	53.9	20.2	28.1	7.5	9.1	46.1	53.9
12			71.6	83.4	51.9	62.9	44.0	51.1					42.8	50.8
13			68.8	81.1	49.2	60.7	44.0	49.9					40.7	48.5
14					48.1	60.1							40.7	47.9
15					46.5	58.4								

Table 4d. Observed (obs.) and relative (rel.) survival of patients with breast cancer (women) by pTNM for period 1998-2012 (N=21,469).

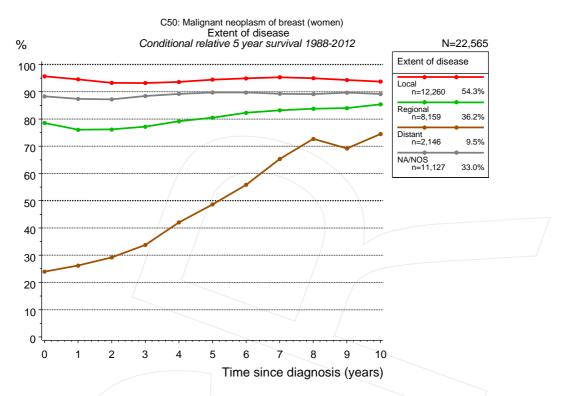


Figure 4e. Conditional relative 5-year survival of patients with breast cancer (women) by extent of disease. For 32,554 of 33,692 cases diagnosed between 1988 and 2012 valid data could be obtained for this item. For a total of 22,565 cases an evaluable classification was established. The grey line represents the subgroup of 11,127 patients with missing values regarding extent of disease (33.0% of 33,692 patients, the percent values of all other categories are related to n=22,565).

			Exten	t of dis	sease			
	Loc	al	Regio	onal	Dista	ant	NA/N	IOS
		Cond. surv. %		Cond. surv. %		Cond. surv. %		Cond. surv. %
Years	n	5 yrs	n	5 yrs	n	5 yrs	n	5 yrs
0	12,260	95.7	8,159	78.5	2,146	24.0	11,127	88.3
1	11,512	94.6	7,526	76.0	1,421	26.2	10,319	87.4
2	10,303	93.3	6,506	76.1	961	29.2	9,282	87.2
3	9,043	93.2	5,525	77.2	644	33.7	8,197	88.4
4	7,898	93.6	4,654	79.1	438	42.0	7,203	89.2
5	6,858	94.5	3,911	80.5	295	48.6	6,211	89.7
6	5,922	94.9	3,292	82.3	200	55.9	5,310	89.7
7	5,245	95.3	2,841	83.2	153	65.3	4,622	89.3
8	4,688	95.0	2,455	83.8	115	72.7	3,975	89.1
9	4,158	94.3	2,093	84.0	99	69.2	3,389	89.6
10	3,673	93.7	1,796	85.4	77	74.5	2,891	89.2

Table 4f. Conditional relative 5-year survival of patients with breast cancer (women) by extent of disease for period 1988-2012 (N=22,565).

Conditional relative survival rates refer to the relative survival probability, in this case for 5 years after cancer diagnosis, compared to the age- and sex-matched population (=100%) under the condition of being alive for a certain time period (x-axis in Figure 4c). The results illustrate to what extent the cancer induced mortality of particular subgroups declines in the subsequent years after detection of the malignancy. For instance, according to the presented survival statistics, patients in the subgroup extent of disease="Local", who are alive at least 3 years after cancer diagnosis, the conditional relative 5-year survival rate is 93.2% (n=9,043).

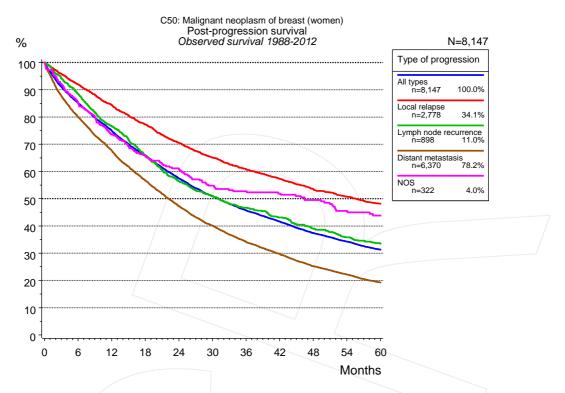


Figure 5a. Observed post-progression survival of 8,147 patients with breast cancer (women) diagnosed between 1988 and 2012 (incl. M1). These 8,147 patients with documented progression events during their course of disease represent 24.2% of the totally 33,692 evaluated cases. Patients with cancer relapse documented via death certificates only were excluded (n=1,062, 3.2%). Multiple progression types on different sites are included in the evaluation even when not occuring 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.

		Туре о	f progression	1	
	All types	Local relapse	Lymph node recurrence	Distant metastasis	NOS
	n=8,147	n=2,778	n=898	n=6,370	n=322
Months	%	%	%	%	%
0	100.0	100.0	100.0	100.0	100.0
12	75.0	84.4	76.7	67.7	73.6
24	57.4	70.5	56.4	47.3	60.7
36	45.7	60.8	46.7	34.1	52.7
48	37.4	53.5	39.1	25.2	49.5
60	31.3	48.1	33.5	19.3	43.8

Table 5b. Observed post-progression survival of patients with breast cancer (women) for period 1988-2012 (N=8,147).

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. Munich Cancer Registry, Germany (Tumorregister München) MCR NA Not available NCI National Cancer Institute, USA NOS Not otherwise specified Observed/overall survival (Kaplan-Meier estimate) OS 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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