

Munich Cancer Registry



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ICD-10 D00-D09: In situ neoplasms

Survival

Year of diagnosis	1988-1997	1998-2020
Patients	3,379	43,041
Diseases	3,415	45,390
Cases evaluated	2,891	32,962
Creation date	04/15/2022	
Database export	12/20/2021	
Population	4.92 m	



Munich Cancer Registry
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<https://www.tumorregister-muenchen.de/en>

<https://www.tumorregister-muenchen.de/en/facts/surv/sD0009E-ICD-10-D00-D09-In-situ-neoplasms-survival.pdf>

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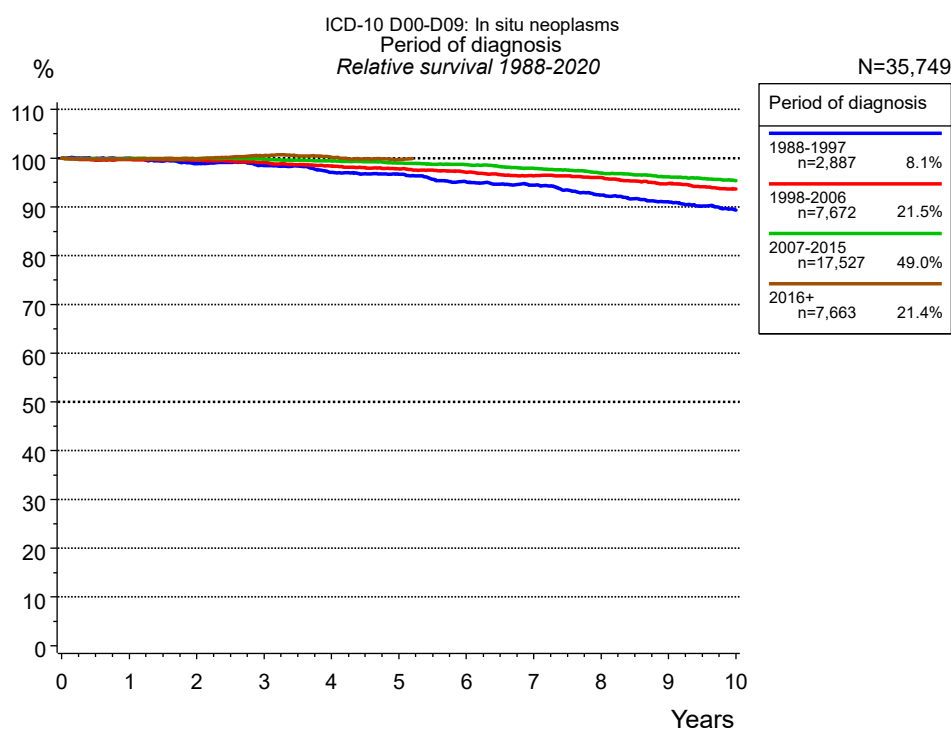


Figure 1a. Relative survival of patients with in situ neoplasms by period of diagnosis. Included in the evaluation are 35,749 cases diagnosed between 1988 and 2020.

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							
	1988-1997 n=2,887		1998-2006 n=7,672		2007-2015 n=17,527		2016+ n=7,663	
	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	96.7	99.9	97.4	99.7	98.1	100.0	98.0	99.8
2	92.7	98.9	95.1	99.6	96.2	99.9	96.3	99.9
3	89.6	98.5	92.5	99.1	94.3	99.8	95.2	100.5
4	85.7	97.1	89.8	98.4	92.2	99.4	93.0	100.1
5	83.0	96.7	87.3	97.8	90.2	99.0	90.9	99.7
6	79.3	95.1	84.8	97.1	88.2	98.7		
7	76.6	94.4	82.3	96.4	86.0	97.9		
8	72.9	92.4	80.1	96.0	83.6	97.0		
9	69.9	91.0	77.4	94.8	81.4	96.2		
10	66.9	89.3	74.7	93.6	79.3	95.4		
Median	16.5		20.9					

Table 1b. Observed (obs.) and relative (rel.) survival of patients with in situ neoplasms by period of diagnosis for period 1988-2020 (N=35,749).

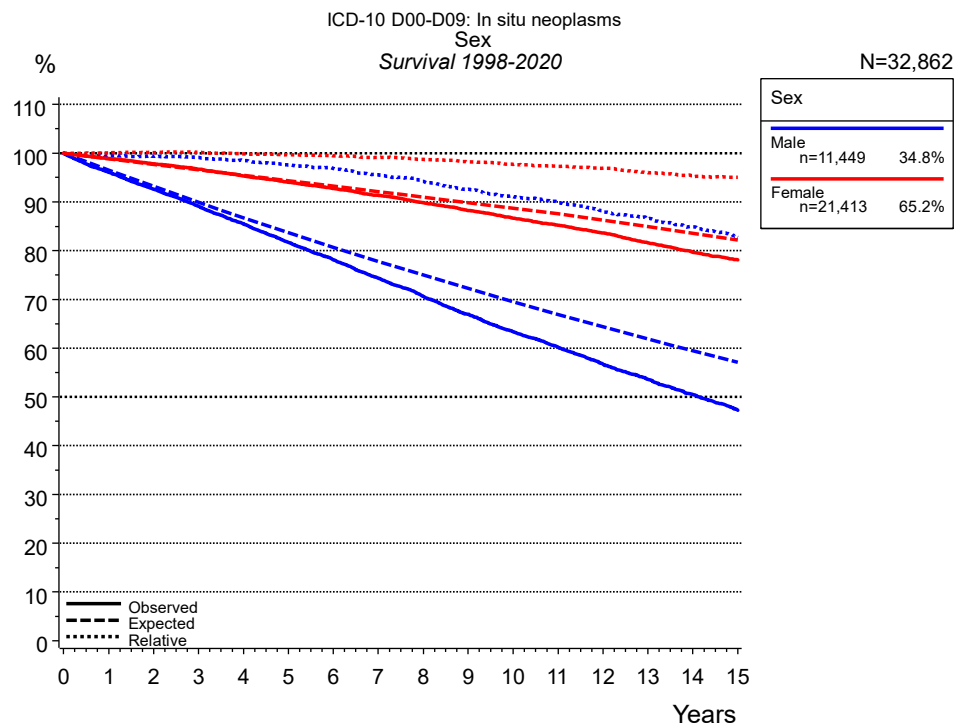


Figure 2a. Survival of patients with in situ neoplasms by sex. Included in the evaluation are 32,862 cases diagnosed between 1998 and 2020.

Years	Sex			
	Male n=11,449		Female n=21,413	
	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0
1	96.1	99.6	98.9	100.1
2	92.6	99.4	97.8	100.1
3	89.1	99.1	96.7	100.2
4	85.5	98.5	95.3	99.8
5	81.6	97.6	94.0	99.7
6	78.2	96.8	92.7	99.5
7	74.3	95.5	91.3	99.2
8	70.7	94.2	89.9	98.7
9	66.9	92.6	88.3	98.2
10	63.4	91.1	86.7	97.7
11	60.2	89.9	85.2	97.3
12	56.7	88.1	83.6	97.0
13	53.6	86.6	81.6	96.0
14	50.5	84.8	79.7	95.3
15	47.3	82.7	78.1	95.1
Median	14.1			

Table 2b. Observed (obs.) and relative (rel.) survival of patients with in situ neoplasms by sex for period 1998-2020 (N=32,862).

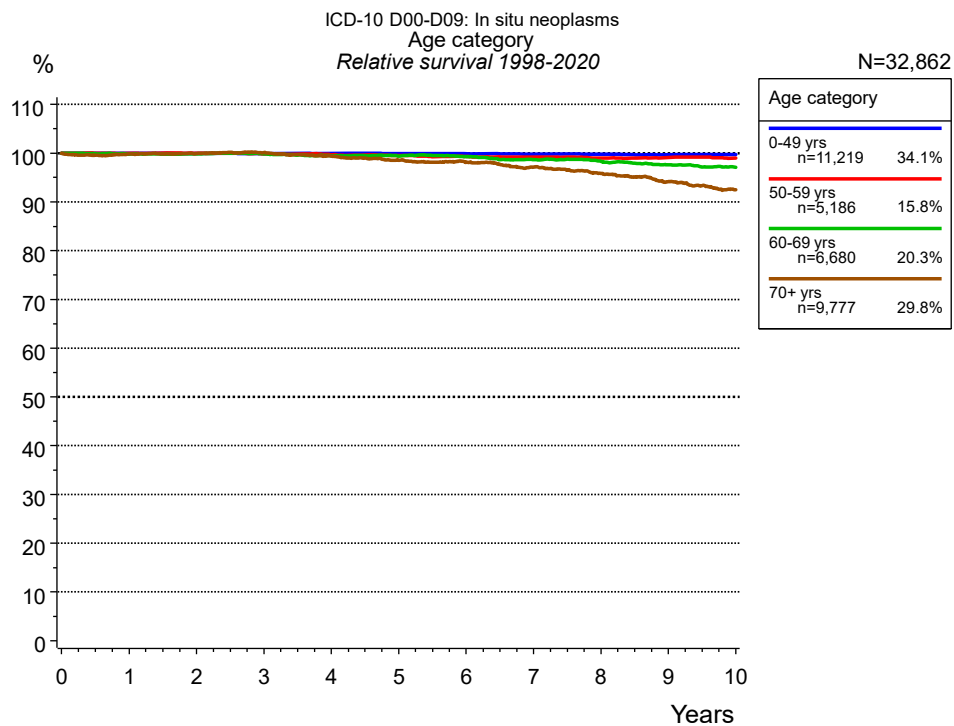


Figure 3a. Relative survival of patients with in situ neoplasms by age category. Included in the evaluation are 32,862 cases diagnosed between 1998 and 2020.

Years	Age category							
	0-49 yrs n=11,219		50-59 yrs n=5,186		60-69 yrs n=6,680		70+ yrs n=9,777	
	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	99.9	100.0	99.5	100.0	98.6	99.8	94.4	99.9
2	99.8	100.0	99.0	99.9	97.4	99.9	89.2	99.9
3	99.7	99.9	98.4	99.9	96.1	99.9	84.3	100.1
4	99.6	100.0	97.7	99.7	94.3	99.5	78.7	99.4
5	99.4	99.9	96.9	99.5	92.7	99.4	73.2	98.5
6	99.3	99.9	96.0	99.3	91.0	99.3	68.2	98.1
7	99.1	99.8	95.2	99.2	88.8	98.7	63.0	97.2
8	98.9	99.8	94.3	99.0	86.7	98.3	57.7	95.8
9	98.6	99.7	93.5	99.1	84.1	97.6	52.5	94.2
10	98.5	99.7	92.5	99.0	81.7	97.1	47.5	92.5
Median					20.5		9.5	

Table 3b. Observed (obs.) and relative (rel.) survival of patients with in situ neoplasms by age category for period 1998-2020 (N=32,862).

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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