Munich Cancer Registry



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ICD-10 D46: Myelodysplastic syndrome

Survival

Year of diagnosis	1988-1997	1998-2020
Patients	73	3,247
Diseases	73	3,253
Cases evaluated	55	1,115
Creation date	04/15/2022	
Database export	12/20/2021	
Population	4.92 m	



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

https://www.tumorregister-muenchen.de/en/facts/surv/sD46___E-ICD-10-D46-Myelodysplastic-syndrome-survival.pdf

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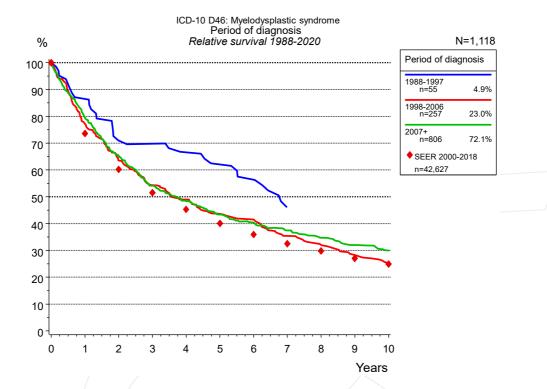


Figure 1a. Relative survival of patients with myelodysplastic syndrome by period of diagnosis. Included in the evaluation are 1,118 cases diagnosed between 1988 and 2020.

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 n=55		1998-2006		2007+	
			n=257		n=806	
Years	obs. %	rel. %	obs. %	rel. %	obs. %	rel. %
0	100.0	100.0	100.0	100.0	100.0	100.0
1	85.5	86.5	73.8	77.2	76.6	79.5
2	67.3	71.0	58.6	63.5	60.7	65.2
3	65.5	69.8	48.6	54.4	48.7	54.1
4	60.0	66.6	42.7	49.0	42.1	48.4
5	54.5	62.1	36.7	43.6	36.6	43.3
6	48.9	56.4	34.3	41.5	33.1	40.3
7	37.6	46.2	28.3	35.5	29.8	37.5
8			25.1	32.1	26.7	34.7
9			21.5	28.3	24.0	32.0
10			19.0	25.2	21.8	30.0
Median	5.5		2.8		2.9	

Table 1b. Observed (obs.) and relative (rel.) survival of patients with myelodysplastic syndrome by period of diagnosis for period 1988-2020 (N=1,118).

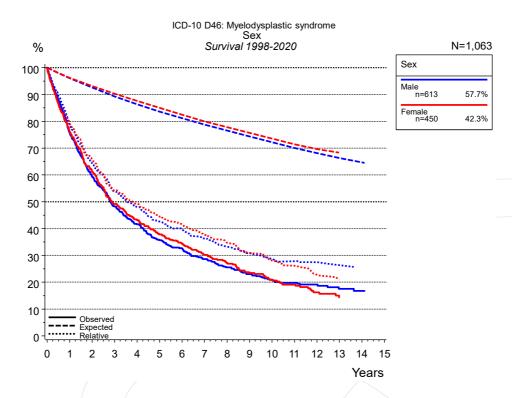


Figure 2a. Survival of patients with myelodysplastic syndrome by sex. Included in the evaluation are 1,063 cases diagnosed between 1998 and 2020.

Sex						
	Ma	ale	Female			
	n=6	313	n=450			
Years	obs. %	rel. %	obs. %	rel. %		
0	100.0	100.0	100.0	100.0		
1	75.6	78.7	76.3	79.2		
2	59.4	64.1	61.3	65.6		
3	48.3	54.0	49.2	54.3		
4	41.6	48.2	43.1	49.2		
5	35.7	42.6	37.9	44.5		
6	32.7	40.0	34.5	41.5		
7	28.7	36.3	30.2	37.7		
8	25.5	33.2	27.2	34.7		
9	23.0	30.8	23.4	30.9		
10	20.9	28.6	21.0	28.1		
11	19.8	27.8	19.1	26.1		
12	19.1	27.4	16.2	22.8		
13	17.5	26.3	14.3	20.9		
14	16.8	25.4				
Median	2.8		2.9			

Table 2b. Observed (obs.) and relative (rel.) survival of patients with myelodysplastic syndrome by sex for period 1998-2020 (N=1,063).

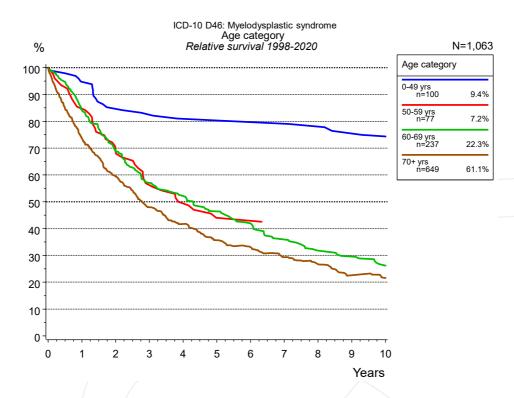


Figure 3a. Relative survival of patients with myelodysplastic syndrome by age category. Included in the evaluation are 1,063 cases diagnosed between 1998 and 2020.

Age category								
	0-49	yrs	50-59 yrs		60-69 yrs		70+ yrs	
	n=1	100	n=77		n=237		n=649	
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	94.7	94.7	85.0	84.7	83.3	84.1	69.3	73.6
2	85.1	84.6	68.5	68.9	66.9	68.8	53.1	59.5
3	83.0	82.5	55.9	56.2	54.8	57.1	40.5	48.0
4	80.8	81.0	48.8	49.4	49.1	52.2	33.2	41.7
5	80.8	80.4	42.5	44.0	43.2	46.4	26.8	35.6
6	79.6	79.7	42.5	42.9	38.5	42.0	23.5	33.1
7	79.6	79.1			32.1	36.0	19.4	29.4
8	78.4	78.0			27.6	31.8	16.6	26.7
9	75.7	75.4			25.5	29.6	12.9	22.6
10	74.1	74.4			22.1	26.2	11.6	21.6
Median			3.9		3.8		2.2	

Table 3b. Observed (obs.) and relative (rel.) survival of patients with myelodysplastic syndrome by age category for period 1998-2020 (N=1,063).

Shortcuts

MCR	Munich Cancer Registry, Germany					
NCI SEER UICC	National Cancer Institute, USA Surveillance, Epidemiology, and End Results, USA Union for International Cancer Control, Geneva					
DCO NA NOS	Death certificate only Not available Not otherwise specified	Death certificate provides the only notification to the registry.				
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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