

Section XXX
Myelodysplastic Syndromes (MDS), Chronic Myeloproliferative Disorders (CMD), and Chronic
Myelomonocytic Leukemia (CMML)

This section includes Myelodysplastic Syndromes (MDS), Chronic Myeloproliferative Disorders (CMD), and Chronic Myelomonocytic Leukemia (CMML). In the 3rd edition of the International Classification of Diseases for Oncology, the behavior code of myelodysplastic syndromes and chronic myeloproliferative disorders was changed from /1, borderline malignancy or low malignant potential, to /3, malignant primary site. These diagnoses became reportable for cases diagnosed in 2001+ when ICD-O-3 went into effect. CMML has been reportable for all years. CMML is included here and in the leukemia section.

Table XXX-1

MYELOYDYSPLASTIC SYNDROMES, CHRONIC MYELOPROLIFERATIVE DISORDERS, AND CHRONIC MYELOMONOCYTIC LEUKEMIACounts, Percents and Age-Adjusted Incidence Rates^a for the 17 SEER Geographic Areas by Subtype, 2001-2005

Site	Both Sexes			Males			Females		
	Count	Percent	Rate	Count	Percent	Rate	Count	Percent	Rate
Total	22561	100.0%	6.4	12244	100.0%	8.3	10317	100.0%	5.1
Myelodysplastic syndromes (MDS)	13328	100.0%	3.8	7294	100.0%	5.1	6034	100.0%	2.9
Refractory anemia (RA), NOS	2047	15.4%	0.6	1044	14.3%	0.7	1003	16.6%	0.5
RA with ringed sideroblasts	1427	10.7%	0.4	782	10.7%	0.6	645	10.7%	0.3
RA with excess blasts (RAEB)	1814	13.6%	0.5	1102	15.1%	0.7	712	11.8%	0.4
RAEB in transformation	169	1.3%	0.0	96	1.3%	0.1	73	1.2%	0.0
Refractory cytopenia w/multilineage dysplasia	566	4.2%	0.2	354	4.9%	0.2	212	3.5%	0.1
Myelodysplastic syndrome with 5q deletion	220	1.7%	0.1	84	1.2%	0.1	136	2.3%	0.1
Therapy-related myelodysplastic syndrome	229	1.7%	0.1	103	1.4%	0.1	126	2.1%	0.1
Myelodysplastic syndrome, NOS	6856	51.4%	1.9	3729	51.1%	2.6	3127	51.8%	1.5
Chronic myeloproliferative disorders (CMD)	7937	100.0%	2.2	4175	100.0%	2.6	3762	100.0%	1.9
Polycythemia vera	3307	41.7%	0.9	1929	46.2%	1.2	1378	36.6%	0.7
Chronic myeloproliferative disease, NOS	1466	18.5%	0.4	779	18.7%	0.5	687	18.3%	0.3
Myelosclerosis with myeloid metaplasia	876	11.0%	0.2	511	12.2%	0.3	365	9.7%	0.2
Essential thrombocythemia	2136	26.9%	0.6	869	20.8%	0.6	1267	33.7%	0.6
Chronic neutrophilic leukemia	16	0.2%	0.0	-	-	-	-	-	-
Hypereosinophilic syndrome	136	1.7%	0.0	78	1.9%	0.0	58	1.5%	0.0
Chronic myelomonocytic leukemia (CMML)	1296	100.0%	0.4	775	100.0%	0.5	521	100.0%	0.3

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

- Statistic not shown due to fewer than 16 cases during the time period.

^a Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Table XXX-2

MYELODYSPLASTIC SYNDROMES, CHRONIC MYELOPROLIFERATIVE DISORDERS, AND CHRONIC MYELOMONOCYTIC LEUKEMIA

Age-Adjusted Incidence Rates^a for the 17 SEER Geographic Areas by Age and Race, 2001-2005

Site	Both Sexes		Males		Females	
	Rate	Count	Rate	Count	Rate	Count
Myelodysplastic syndromes (MDS)						
By age						
<40	0.2	339	0.2	182	0.1	157
40-49	0.8	460	0.8	222	0.8	238
50-59	2.2	967	2.4	518	2.0	449
60-69	8.1	2106	9.7	1178	6.7	928
70-79	23.2	4439	31.6	2590	16.9	1849
80+	41.4	5017	61.5	2604	30.7	2413
By race						
All Races	3.8	13328	5.1	7294	2.9	6034
White	3.9	11373	5.2	6316	2.9	5057
Black	3.5	964	4.1	448	3.1	516
Asian/Pacific Islander	2.8	746	3.5	397	2.3	349
American Indian/Alaska Native ^b	2.2	37	2.3	17	2.2	20
Hispanic ^c	2.9	962	3.4	495	2.5	467
Chronic myeloproliferative disorders (CMD)						
By age						
<40	0.3	548	0.3	307	0.2	241
40-49	1.4	800	1.6	458	1.2	342
50-59	2.8	1239	3.4	728	2.2	511
60-69	6.3	1642	7.6	927	5.2	715
70-79	11.0	2102	13.1	1073	9.4	1029
80+	13.3	1606	16.0	682	11.8	924
By race						
All Races	2.2	7937	2.6	4175	1.9	3762
White	2.2	6498	2.7	3465	1.8	3033
Black	2.2	689	2.5	338	2.0	351
Asian/Pacific Islander	1.6	490	1.8	246	1.4	244
American Indian/Alaska Native ^b	0.9	20	-	-	-	-
Hispanic ^c	1.6	624	1.8	325	1.4	299
Chronic myelomonocytic leukemia (CMML)						
By age						
<40	0.0	19	-	-	-	-
40-49	0.0	16	-	-	-	-
50-59	0.2	73	0.2	40	0.1	33
60-69	0.9	220	1.3	156	0.5	64
70-79	2.5	474	3.7	301	1.6	173
80+	4.1	494	6.1	262	3.0	232
By race						
All Races	0.4	1296	0.5	775	0.3	521
White	0.4	1151	0.6	683	0.3	468
Black	0.3	76	0.5	46	0.2	30
Asian/Pacific Islander	0.2	52	0.3	35	0.1	17
American Indian/Alaska Native ^b	-	-	-	-	-	-
Hispanic ^c	0.2	74	0.3	44	0.2	30

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

- Statistic not shown due to fewer than 16 cases during the time period.

^a Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^b Incidence data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

^c Hispanics are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry and Kentucky.