

Supplementary File

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Supplemental Table 1 Sepsis Mortality among Patients with Myeloid Leukemia–related Deaths, Stratified by Sex and Race, in Adults in the U.S., 1999 to 2023.

Year	Overall	Women	Men	NH White	NH Black or African American	NH Asian or Pacific Islander	Hispanic or Latino
1999	1,123	492	631	891	116	35	78
2000	1,169	481	688	947	123	22	72
2001	1,168	472	696	929	133	34	68
2002	1,117	445	672	877	115	43	77
2003	1,120	480	640	891	127	21	79
2004	1,169	496	673	943	123	32	68
2005	1,166	489	677	919	116	37	91
2006	1,216	509	707	963	133	40	77
2007	1,208	514	694	941	135	39	90
2008	1,312	546	766	1,040	123	50	96
2009	1,281	517	764	1,008	125	47	96
2010	1,363	554	809	1,037	138	58	120
2011	1,437	599	838	1,089	168	71	105
2012	1,333	526	807	1,034	146	50	95
2013	1,336	521	815	989	171	59	112
2014	1,568	671	897	1,224	156	51	131
2015	1,550	612	938	1,178	178	56	130
2016	1,594	653	941	1,195	190	63	139
2017	1,649	681	968	1,219	182	74	165
2018	1,669	683	986	1,251	177	78	155
2019	1,723	712	1,011	1,278	198	74	170
2020	1,657	662	995	1,239	186	69	151
2021	1,758	730	1,028	1,298	191	84	174
2022	1,688	685	1,003	1,235	181	75	184
2023	1,701	690	1,011	1,255	187	74	172
Total	35,075	14,420	20,655	26,870	3,818	1,336	2,895

NH, non-Hispanic

Supplemental Table 2 Sepsis Mortality among Patients with Myeloid Leukemia–related Mortality, Stratified by Place of Death in Adults in the U.S., 1999 to 2023.

Place of Death	Deaths
Medical Facility - Inpatient	31,147
Medical Facility - Outpatient or ER	524
Medical Facility - Dead on Arrival	17
Medical Facility - Status unknown	28
Decedent's home	1,557
Hospice facility	857
Nursing home/long-term care	580
Other	293
Place of death unknown	71
Total	35,074

Data for “Medical Facility - Dead on Arrival” were suppressed for the years 2021-2023 due to small cell counts.

Supplemental Table 3 Annual percent change (APC) of Sepsis Mortality among Patients with Myeloid Leukemia–related Age-Adjusted Mortality Rates per 100,000 population in the U.S., 1999 to 2023.

Year Interval	APC (95% CI)
Overall	
1999-2023	0.31 (0.09 to 0.52)
Women	
1999-2023	0.32 (−0.009 to 0.66)
Men	
1999-2023	0.17 (−0.04 to 0.4)
NH White	
1999-2023	0.3 (0.04 to 0.57)
NH Black or African American	
1999-2023	0.01 (−0.43 to 0.46)
NH Asian or Pacific Islander	
1999-2023	0.02 (−0.9 to 0.97)
Hispanic or Latino	
1999-2023	0.32 (−0.31 to 0.96)
Metropolitan	
1999-2020	0.38 (0.16 to 0.6)
Non-metropolitan	
1999-2020	0.62 (−0.004 to 1.25)
Northeast	
1999-2023	−0.77 (−1.15 to −0.39)
Midwest	
1999-2023	0.3 (−0.01 to 0.62)
South	
1999-2023	0.36 (−0.03 to 0.76)
West	
1999-2023	0.62 (0.2 to 1.04)
Age 25-44 Years	
1999-2023	−1.35 (−1.87 to −0.82)
Age 45-64 Years	

1999-2017	0.11 (−0.32 to 0.56)
2017-2023	−2.9 (−5.2 to −0.48)
Age 65+ Years	
1999-2023	0.91 (0.62 to 1.2)

APC, Annual percent change; NH, Non-Hispanic.

Supplemental Table 4: Overall and Sex-Stratified Sepsis Mortality among Patients with Myeloid Leukemia–Related Age-Adjusted Mortality Rates per 100,000 population in the U.S., 1999 to 2023.

Year	Overall	Women	Men
1999	0.62 (0.58-0.66)	0.5 (0.46-0.54)	0.81 (0.74-0.87)
2000	0.63 (0.6-0.67)	0.47 (0.43-0.51)	0.87 (0.8-0.94)
2001	0.65 (0.61-0.69)	0.46 (0.42-0.5)	0.83 (0.77-0.9)
2002	0.6 (0.56-0.63)	0.44 (0.4-0.49)	0.82 (0.76-0.88)
2003	0.59 (0.56-0.62)	0.48 (0.44-0.53)	0.76 (0.7-0.82)
2004	0.62 (0.58-0.65)	0.48 (0.43-0.52)	0.79 (0.73-0.85)
2005	0.6 (0.56-0.63)	0.45 (0.41-0.49)	0.77 (0.71-0.83)
2006	0.62 (0.58-0.65)	0.47 (0.43-0.51)	0.8 (0.74-0.86)
2007	0.6 (0.57-0.64)	0.47 (0.43-0.51)	0.75 (0.7-0.81)
2008	0.63 (0.59-0.66)	0.49 (0.45-0.53)	0.82 (0.76-0.88)
2009	0.62 (0.59-0.66)	0.46 (0.42-0.5)	0.79 (0.73-0.85)
2010	0.65 (0.61-0.68)	0.48 (0.44-0.52)	0.82 (0.77-0.88)
2011	0.66 (0.63-0.7)	0.5 (0.46-0.55)	0.84 (0.79-0.9)
2012	0.59 (0.56-0.62)	0.41 (0.38-0.45)	0.78 (0.72-0.83)
2013	0.6 (0.57-0.64)	0.42 (0.38-0.45)	0.78 (0.73-0.84)
2014	0.67 (0.64-0.71)	0.53 (0.49-0.57)	0.83 (0.78-0.89)
2015	0.65 (0.62-0.68)	0.49 (0.45-0.53)	0.84 (0.78-0.89)
2016	0.65 (0.62-0.68)	0.52 (0.48-0.56)	0.84 (0.79-0.9)
2017	0.66 (0.63-0.69)	0.48 (0.45-0.52)	0.86 (0.81-0.92)
2018	0.66 (0.63-0.69)	0.51 (0.47-0.55)	0.84 (0.78-0.89)
2019	0.67 (0.63-0.7)	0.51 (0.47-0.54)	0.86 (0.8-0.91)
2020	0.64 (0.61-0.67)	0.48 (0.44-0.51)	0.82 (0.77-0.88)
2021	0.69 (0.66-0.73)	0.54 (0.5-0.58)	0.87 (0.81-0.92)
2022	0.64 (0.61-0.67)	0.48 (0.44-0.51)	0.8 (0.75-0.85)
2023	0.62 (0.59-0.65)	0.48 (0.44-0.52)	0.82 (0.77-0.87)

Supplemental Table 5 Sepsis Mortality among Patients with Myeloid Leukemia–related Age-Adjusted Mortality Rates per 100,000 population in the U.S., Stratified by Race, 1999 to 2023

Year	NH White	NH Black or African American	NH Asian or Pacific Islander	Hispanic or Latino
1999	0.6 (0.56-0.64)	0.72 (0.59-0.86)	0.62 (0.42-0.88)	0.67 (0.52-0.85)
2000	0.66 (0.62-0.7)	0.72 (0.59-0.84)	0.39 (0.24-0.6)	0.61 (0.46-0.78)
2001	0.65 (0.61-0.69)	0.76 (0.63-0.89)	0.52 (0.36-0.74)	0.53 (0.4-0.69)
2002	0.61 (0.57-0.65)	0.64 (0.52-0.76)	0.69 (0.49-0.94)	0.55 (0.43-0.7)
2003	0.6 (0.56-0.64)	0.69 (0.56-0.81)	0.32 (0.19-0.49)	0.51 (0.39-0.65)
2004	0.62 (0.58-0.66)	0.66 (0.54-0.78)	0.48 (0.32-0.69)	0.42 (0.32-0.54)
2005	0.61 (0.57-0.65)	0.58 (0.47-0.69)	0.48 (0.33-0.67)	0.59 (0.47-0.73)
2006	0.63 (0.59-0.67)	0.69 (0.57-0.81)	0.5 (0.35-0.69)	0.45 (0.34-0.57)
2007	0.59 (0.56-0.63)	0.69 (0.57-0.81)	0.47 (0.33-0.65)	0.49 (0.38-0.61)
2008	0.64 (0.6-0.68)	0.59 (0.49-0.7)	0.6 (0.44-0.79)	0.52 (0.41-0.64)
2009	0.63 (0.59-0.67)	0.59 (0.48-0.69)	0.54 (0.39-0.73)	0.52 (0.42-0.65)
2010	0.64 (0.6-0.68)	0.63 (0.52-0.74)	0.65 (0.49-0.84)	0.61 (0.49-0.73)
2011	0.66 (0.62-0.7)	0.76 (0.64-0.88)	0.71 (0.55-0.9)	0.49 (0.38-0.59)
2012	0.6 (0.56-0.63)	0.63 (0.53-0.74)	0.45 (0.33-0.61)	0.44 (0.35-0.55)
2013	0.57 (0.53-0.6)	0.76 (0.64-0.88)	0.55 (0.42-0.72)	0.49 (0.39-0.59)
2014	0.69 (0.65-0.73)	0.64 (0.53-0.74)	0.46 (0.34-0.62)	0.54 (0.44-0.63)
2015	0.64 (0.6-0.67)	0.72 (0.61-0.83)	0.48 (0.36-0.62)	0.51 (0.42-0.61)
2016	0.67 (0.63-0.71)	0.76 (0.65-0.87)	0.52 (0.39-0.66)	0.53 (0.44-0.63)
2017	0.66 (0.62-0.7)	0.68 (0.58-0.78)	0.57 (0.45-0.72)	0.64 (0.54-0.74)
2018	0.67 (0.63-0.71)	0.65 (0.56-0.75)	0.6 (0.47-0.75)	0.57 (0.48-0.67)
2019	0.68 (0.64-0.72)	0.71 (0.61-0.81)	0.52 (0.4-0.66)	0.59 (0.5-0.69)
2020	0.63 (0.59-0.67)	0.65 (0.55-0.74)	0.45 (0.35-0.57)	0.52 (0.43-0.61)
2021	0.7 (0.66-0.75)	0.71 (0.61-0.82)	0.63 (0.5-0.77)	0.57 (0.48-0.66)
2022	0.64 (0.61-0.68)	0.66 (0.57-0.76)	0.54 (0.43-0.68)	0.62 (0.53-0.72)
2023	0.63 (0.59-0.66)	0.67 (0.57-0.77)	0.51 (0.4-0.64)	0.55 (0.47-0.64)

NH, non-Hispanic.

Supplemental Table 6 Sepsis Mortality among Patients with Myeloid Leukemia–related Age-Adjusted Mortality Rates per 100,000 population in the U.S., Stratified by Census Region, 1999 to 2023.

Census Region	Year	Age-Adjusted Rate
Northeast	1999	0.78 (0.68-0.87)
Northeast	2000	0.73 (0.64-0.81)
Northeast	2001	0.8 (0.7-0.89)
Northeast	2002	0.62 (0.54-0.7)
Northeast	2003	0.61 (0.53-0.69)
Northeast	2004	0.69 (0.6-0.77)
Northeast	2005	0.67 (0.59-0.75)
Northeast	2006	0.68 (0.6-0.77)
Northeast	2007	0.7 (0.62-0.78)
Northeast	2008	0.69 (0.61-0.78)
Northeast	2009	0.62 (0.55-0.7)
Northeast	2010	0.66 (0.58-0.74)
Northeast	2011	0.61 (0.53-0.69)
Northeast	2012	0.55 (0.48-0.62)
Northeast	2013	0.59 (0.51-0.66)
Northeast	2014	0.63 (0.56-0.71)
Northeast	2015	0.65 (0.57-0.72)
Northeast	2016	0.62 (0.55-0.7)
Northeast	2017	0.61 (0.53-0.68)
Northeast	2018	0.67 (0.6-0.75)
Northeast	2019	0.63 (0.55-0.7)
Northeast	2020	0.62 (0.55-0.7)
Northeast	2021	0.59 (0.52-0.66)
Northeast	2022	0.6 (0.53-0.67)
Northeast	2023	0.61 (0.53-0.68)
Midwest	1999	0.59 (0.52-0.66)
Midwest	2000	0.63 (0.55-0.7)
Midwest	2001	0.6 (0.53-0.67)
Midwest	2002	0.62 (0.54-0.69)
Midwest	2003	0.56 (0.49-0.63)

Midwest	2004	0.58 (0.51-0.65)
Midwest	2005	0.57 (0.5-0.64)
Midwest	2006	0.6 (0.53-0.67)
Midwest	2007	0.52 (0.45-0.58)
Midwest	2008	0.64 (0.56-0.71)
Midwest	2009	0.63 (0.56-0.7)
Midwest	2010	0.64 (0.57-0.71)
Midwest	2011	0.67 (0.6-0.74)
Midwest	2012	0.6 (0.53-0.67)
Midwest	2013	0.59 (0.52-0.66)
Midwest	2014	0.65 (0.58-0.72)
Midwest	2015	0.57 (0.51-0.64)
Midwest	2016	0.62 (0.55-0.69)
Midwest	2017	0.64 (0.57-0.71)
Midwest	2018	0.61 (0.54-0.68)
Midwest	2019	0.63 (0.57-0.7)
Midwest	2020	0.66 (0.59-0.73)
Midwest	2021	0.61 (0.55-0.68)
Midwest	2022	0.67 (0.6-0.74)
Midwest	2023	0.61 (0.55-0.68)
South	1999	0.61 (0.55-0.67)
South	2000	0.65 (0.59-0.71)
South	2001	0.66 (0.6-0.73)
South	2002	0.57 (0.51-0.63)
South	2003	0.61 (0.55-0.67)
South	2004	0.59 (0.53-0.65)
South	2005	0.55 (0.49-0.6)
South	2006	0.6 (0.54-0.65)
South	2007	0.6 (0.54-0.66)
South	2008	0.62 (0.56-0.68)
South	2009	0.6 (0.54-0.65)
South	2010	0.6 (0.55-0.66)
South	2011	0.66 (0.6-0.72)

South	2012	0.59 (0.54-0.65)
South	2013	0.53 (0.48-0.58)
South	2014	0.66 (0.61-0.72)
South	2015	0.66 (0.6-0.71)
South	2016	0.65 (0.6-0.7)
South	2017	0.67 (0.62-0.72)
South	2018	0.65 (0.6-0.7)
South	2019	0.68 (0.63-0.73)
South	2020	0.61 (0.56-0.66)
South	2021	0.71 (0.65-0.76)
South	2022	0.62 (0.57-0.67)
South	2023	0.64 (0.59-0.69)
West	1999	0.6 (0.52-0.68)
West	2000	0.57 (0.5-0.65)
West	2001	0.51 (0.44-0.59)
West	2002	0.64 (0.56-0.72)
West	2003	0.52 (0.45-0.59)
West	2004	0.55 (0.48-0.63)
West	2005	0.6 (0.52-0.68)
West	2006	0.58 (0.5-0.65)
West	2007	0.58 (0.5-0.65)
West	2008	0.65 (0.57-0.73)
West	2009	0.56 (0.49-0.62)
West	2010	0.72 (0.64-0.8)
West	2011	0.67 (0.6-0.75)
West	2012	0.65 (0.58-0.73)
West	2013	0.67 (0.59-0.74)
West	2014	0.68 (0.61-0.75)
West	2015	0.64 (0.57-0.71)
West	2016	0.69 (0.62-0.76)
West	2017	0.68 (0.61-0.75)
West	2018	0.67 (0.6-0.74)
West	2019	0.65 (0.59-0.72)

West	2020	0.63 (0.57-0.7)
West	2021	0.73 (0.66-0.81)
West	2022	0.64 (0.57-0.7)
West	2023	0.61 (0.55-0.67)

Supplemental Table 7 Sepsis Mortality among Patients with Myeloid Leukemia–related Age-Adjusted Mortality Rates per 100,000 population in the U.S., Stratified by Urban-Rural Classification, 1999 to 2020.

Year	Metropolitan	Non-metropolitan
1999	0.62 (0.58-0.66)	0.61 (0.52-0.7)
2000	0.63 (0.59-0.67)	0.68 (0.59-0.77)
2001	0.62 (0.58-0.66)	0.65 (0.56-0.73)
2002	0.61 (0.57-0.65)	0.56 (0.48-0.65)
2003	0.6 (0.56-0.64)	0.56 (0.48-0.64)
2004	0.62 (0.59-0.66)	0.51 (0.43-0.59)
2005	0.59 (0.55-0.62)	0.6 (0.52-0.69)
2006	0.62 (0.58-0.66)	0.61 (0.52-0.69)
2007	0.64 (0.6-0.68)	0.49 (0.42-0.57)
2008	0.63 (0.6-0.67)	0.64 (0.55-0.72)
2009	0.62 (0.58-0.65)	0.59 (0.51-0.68)
2010	0.64 (0.6-0.67)	0.64 (0.56-0.73)
2011	0.66 (0.62-0.7)	0.65 (0.56-0.73)
2012	0.59 (0.56-0.63)	0.54 (0.46-0.61)
2013	0.61 (0.57-0.65)	0.52 (0.45-0.6)
2014	0.68 (0.64-0.72)	0.7 (0.61-0.79)
2015	0.64 (0.6-0.67)	0.67 (0.59-0.75)
2016	0.66 (0.63-0.7)	0.66 (0.58-0.74)
2017	0.66 (0.62-0.69)	0.68 (0.6-0.77)
2018	0.66 (0.62-0.69)	0.66 (0.57-0.74)
2019	0.66 (0.62-0.69)	0.7 (0.61-0.79)
2020	0.65 (0.62-0.69)	0.63 (0.55-0.71)

Supplemental Table 8 Sepsis Mortality among Patients with Myeloid Leukemia–related Crude Mortality Rates per 100,000 population in the U.S., Stratified by Age, 1999 to 2023.

Year	Age 25-44 Years	Age 45-64 Years	Age 65+ Years
1999	0.17 (0.14-0.2)	0.6 (0.54-0.67)	1.77 (1.63-1.91)
2000	0.18 (0.15-0.21)	0.61 (0.54-0.67)	1.84 (1.7-1.98)
2001	0.18 (0.16-0.21)	0.62 (0.56-0.68)	1.74 (1.6-1.87)
2002	0.16 (0.14-0.19)	0.55 (0.49-0.6)	1.73 (1.59-1.87)
2003	0.17 (0.14-0.19)	0.55 (0.5-0.61)	1.68 (1.54-1.81)
2004	0.14 (0.11-0.16)	0.62 (0.56-0.68)	1.7 (1.56-1.83)
2005	0.16 (0.13-0.19)	0.62 (0.56-0.68)	1.59 (1.46-1.71)
2006	0.17 (0.14-0.2)	0.57 (0.52-0.63)	1.73 (1.6-1.87)
2007	0.14 (0.12-0.17)	0.57 (0.52-0.63)	1.71 (1.58-1.85)
2008	0.17 (0.14-0.19)	0.61 (0.56-0.67)	1.79 (1.66-1.92)
2009	0.15 (0.12-0.18)	0.58 (0.53-0.63)	1.74 (1.61-1.87)
2010	0.14 (0.12-0.17)	0.61 (0.56-0.66)	1.86 (1.72-1.99)
2011	0.17 (0.15-0.2)	0.59 (0.54-0.65)	1.94 (1.8-2.07)
2012	0.11 (0.09-0.13)	0.58 (0.53-0.63)	1.76 (1.64-1.89)
2013	0.13 (0.1-0.15)	0.58 (0.53-0.63)	1.68 (1.56-1.8)
2014	0.15 (0.13-0.18)	0.62 (0.57-0.67)	1.99 (1.87-2.12)
2015	0.13 (0.11-0.16)	0.59 (0.54-0.65)	1.97 (1.84-2.09)
2016	0.15 (0.12-0.17)	0.64 (0.58-0.69)	1.89 (1.77-2.02)
2017	0.12 (0.1-0.14)	0.62 (0.57-0.67)	2.01 (1.89-2.14)
2018	0.13 (0.1-0.15)	0.55 (0.5-0.6)	2.09 (1.97-2.22)
2019	0.15 (0.12-0.18)	0.56 (0.51-0.61)	2.08 (1.96-2.2)
2020	0.12 (0.1-0.14)	0.57 (0.52-0.62)	1.95 (1.83-2.06)
2021	0.14 (0.11-0.16)	0.57 (0.52-0.62)	2.12 (1.99-2.24)
2022	0.13 (0.11-0.15)	0.49 (0.44-0.54)	2.06 (1.94-2.18)
2023	0.12 (0.1-0.14)	0.53 (0.48-0.58)	1.99 (1.87-2.1)