

# Racial differences in the proportion of myeloma cases attributable to excess body weight and diabetes mellitus in the United States

## Authors

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Table S1: Prevalence

Year	Overweight Prevalence											
	Non-Hispanic White				Non-Hispanic Black				Hispanic			
	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+
2006	30.50%	35.00%	37.80%	33.80%	32.70%	30.90%	36.70%	27.90%	35.60%	41.70%	39.50%	33.80%
2007	29.60%	36.30%	36.30%	34.70%	31.30%	33.00%	33.00%	39.40%	34.50%	43.60%	43.60%	35.20%
2008	31.20%	33.10%	37.20%	36.80%	29.60%	35.00%	32.30%	31.90%	36.00%	37.70%	41.70%	39.30%
2009	30.70%	37.00%	37.40%	36.30%	30.40%	34.50%	32.70%	36.00%	38.10%	41.30%	37.70%	34.20%
2010	29.80%	35.10%	38.40%	34.80%	30.90%	33.90%	36.80%	29.80%	37.80%	39.90%	37.40%	32.10%
2011	30.10%	36.20%	37.10%	35.30%	30.20%	36.00%	33.00%	36.60%	33.90%	40.60%	42.00%	36.00%
Overweight Total	30.32%	35.45%	37.37%	35.28%	30.85%	33.88%	34.08%	33.60%	35.98%	40.80%	40.32%	35.10%
Obesity Prevalence												
Year	Non-Hispanic White				Non-Hispanic Black				Hispanic			
	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+
	25.90%	33.90%	30.90%	20.70%	35.10%	43.10%	42.10%	36.90%	28.70%	34.10%	35.50%	30.50%
2006	26.60%	33.40%	31.80%	21.30%	38.50%	43.20%	39.20%	28.70%	31.70%	34.80%	27.50%	23.20%
2007	25.40%	35.30%	32.80%	18.90%	37.00%	42.50%	41.00%	34.80%	32.80%	38.70%	36.20%	26.30%
2008	25.30%	33.60%	31.10%	19.80%	38.50%	43.60%	41.30%	31.00%	31.80%	39.00%	41.90%	25.30%
2009	25.70%	34.20%	33.70%	20.10%	35.80%	46.10%	40.50%	31.00%	30.60%	40.20%	39.20%	31.70%
2010	25.70%	33.40%	33.40%	20.70%	38.80%	45.50%	46.80%	32.10%	32.20%	37.90%	37.50%	28.40%
2011	25.77%	33.97%	32.28%	20.25%	37.28%	44.00%	41.82%	32.42%	31.30%	37.45%	36.30%	27.57%
Obesity Total	25.77%	33.97%	32.28%	20.25%	37.28%	44.00%	41.82%	32.42%	31.30%	37.45%	36.30%	27.57%
Diabetes Mellitus Prevalence												
Year	Non-Hispanic White				Non-Hispanic Black				Hispanic			
	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+
	2.30%	9.00%	15.60%	16.40%	4.80%	14.90%	31.00%	24.80%	2.30%	15.90%	25.10%	25.60%
2006	2.00%	8.50%	17.40%	14.80%	3.10%	17.30%	28.80%	35.80%	2.00%	16.00%	30.10%	29.00%
2007	2.10%	10.20%	17.50%	15.70%	3.00%	16.40%	29.70%	25.00%	2.50%	17.70%	27.80%	21.10%
2008	2.60%	11.10%	16.90%	16.80%	3.50%	19.00%	35.30%	28.60%	3.10%	17.30%	29.30%	33.70%
2009	2.40%	10.10%	19.00%	18.70%	3.90%	17.60%	30.20%	32.20%	3.10%	18.40%	31.70%	37.40%
2010	1.90%	10.40%	19.50%	16.60%	4.30%	16.90%	31.80%	28.20%	3.10%	17.40%	32.00%	26.70%
2011	2.22%	9.88%	17.65%	16.50%	3.77%	17.02%	31.13%	29.10%	2.68%	17.12%	29.33%	28.92%
Diabetes Mellitus Total	2.22%	9.88%	17.65%	16.50%	3.77%	17.02%	31.13%	29.10%	2.68%	17.12%	29.33%	28.92%

Table S2: Total Number of Incident MM Cases Attributable to Elevated Body Mass Index (BMI) in Adults 18 Years or Older, 2016-2021

Year	Age	NHW						NHB						Hispanic						All races									
		PAF 1	95% CI	Attributable	PAF 2	95% CI	Attributable	Total	PAF 1	95% CI	Attributable	PAF 2	95% CI	Attributable	Total	PAF 1	95% CI	Attributable	PAF 2	95% CI	Attributable	Total	PAF 1	95% CI	Attributable	PAF 2	95% CI	Attributable	Total
2016	18-44	9.47%	(-1.0%-22.0%)	29	14.95%	(1.0%-32.0%)	45	302	11.69%	(-1.0%-23.0%)	33	18.48%	(1.0%-35.0%)	53	285	10.49%	(-1.0%-22.0%)	27	16.37%	(1.0%-32.0%)	42	254	10.53%	(-1.0%-22.7%)	89	16.57%	(1.0%-33.0%)	139	841
	45-64	11.60%	(-1.0%-23.0%)	623	18.22%	(1.0%-34.0%)	979	5,372	13.29%	(0.0%-25.0%)	289	21.08%	(2.0%-39.0%)	458	2,172	12.09%	(-2.0%-25.0%)	202	18.67%	(1.0%-35.0%)	312	1,673	12.09%	(-1.0%-24.3%)	1,114	18.98%	(1.3%-36.0%)	1,749	9,217
	65-74	11.13%	(-2.0%-23.0%)	677	17.33%	(1.0%-33.0%)	1,054	6,082	13.47%	(-1.0%-26.0%)	248	21.08%	(2.0%-39.0%)	389	1,843	11.60%	(-1.0%-25.0%)	116	18.22%	(1.0%-36.0%)	182	998	11.67%	(-1.3%-24.7%)	1,041	18.21%	(1.3%-36.0%)	1,625	8,923
	75+	8.49%	(-2.0%-19.0%)	562	13.07%	(0.0%-26.0%)	865	6,620	11.75%	(0.0%-23.0%)	184	18.82%	(2.0%-36.0%)	294	1,563	10.74%	(-1.0%-22.0%)	107	16.88%	(1.0%-33.0%)	168	994	9.29%	(-1.0%-21.3%)	852	14.46%	(1.0%-31.7%)	1,327	9,177
	All age groups	10.33%	(-1.0%-21.0%)	1,899	16.25%	(1.0%-31.0%)	2,986	18,377	12.34%	(0.0%-24%)	724	19.55%	(2.0%-37.0%)	1,146	5,863	10.98%	(-1.0%-23.0%)	430	17.09%	(1.0%-33.0%)	670	3,919	10.99%	(-1.0%-22.0%)	3,094	17.38%	(1.0%-32.0%)	4,894	28,158
2017	18-44	9.66%	(-1.0%-23.0%)	36	15.17%	(1.0%-33.0%)	56	371	12.43%	(0.0%-24.0%)	33	19.62%	(1.0%-37.0%)	52	266	11.18%	(-1.0%-23.0%)	28	17.41%	(1.0%-33.0%)	44	253	10.92%	(-0.7%-23.3%)	97	17.14%	(1.0%-35.3%)	153	891
	45-64	11.70%	(-1.0%-24.0%)	614	18.15%	(1.0%-35.0%)	953	5,248	13.54%	(0.0%-26.0%)	319	21.26%	(1.0%-39.0%)	501	2,358	12.48%	(-2.0%-26.0%)	214	19.04%	(0.0%-36.0%)	326	1,712	12.31%	(-1.0%-25.3%)	1,147	19.10%	(0.7%-36.7%)	1,780	9,318
	65-74	11.44%	(-1.0%-23.0%)	685	17.66%	(1.0%-34.0%)	1,057	5,986	12.97%	(-1.0%-25.0%)	234	20.15%	(1.0%-38.0%)	364	1,808	11.70%	(-3.0%-24.0%)	141	18.15%	(0.0%-32.0%)	220	1,209	11.78%	(-1.7%-24.0%)	1,060	18.22%	(0.7%-34.7%)	1,641	9,003
	75+	8.81%	(-2.0%-20.0%)	566	13.42%	(0.0%-27.0%)	861	6,418	10.85%	(-2.0%-23.0%)	159	16.56%	(0.0%-32.0%)	243	1,467	9.28%	(-2.0%-21.0%)	88	14.19%	(0.0%-29.0%)	135	952	9.20%	(-2.0%-21.3%)	813	14.02%	(0.0%-29.3%)	1,239	8,837
	All age groups	10.52%	(-1.0%-22.0%)	1,896	16.38%	(0.0%-31.0%)	2,952	18,024	12.77%	(0.0%-25.0%)	753	20.07%	(1.0%-38.0%)	1,184	5,899	11.44%	(-1.0%-23.0%)	472	17.68%	(0.0%-34.0%)	729	4,126	10.91%	(-1.0%-22.0%)	3,061	17.20%	(0.0%-31.0%)	4,825	28,049
2018	18-44	9.47%	(-1.0%-24.0%)	41	14.80%	(1.0%-32.0%)	64	433	11.96%	(0.0%-23.0%)	34	18.96%	(1.0%-35.0%)	54	287	11.51%	(-1.0%-24.0%)	27	17.90%	(1.0%-32.0%)	43	238	10.73%	(-0.7%-23.7%)	103	16.82%	(1.0%-33.0%)	161	958
	45-64	11.84%	(0.0%-24.0%)	577	18.59%	(1.0%-34.0%)	906	4,874	13.52%	(0.0%-26.0%)	328	21.12%	(2.0%-39.0%)	513	2,428	12.92%	(-1.0%-26.0%)	242	20.04%	(1.0%-35.0%)	376	1,795	12.50%	(-0.3%-25.3%)	1,148	19.55%	(1.3%-36.0%)	1,786	9,178
	65-74	11.59%	(-1.0%-24.0%)	696	17.95%	(1.0%-33.0%)	1,078	6,004	13.00%	(0.0%-25.0%)	257	20.42%	(2.0%-39.0%)	403	1,973	11.84%	(-1.0%-26.0%)	134	18.59%	(1.0%-36.0%)	210	1,130	11.92%	(-0.7%-25.0%)	1,086	18.56%	(1.3%-36.0%)	1,690	9,107
	75+	8.38%	(-3.0%-20.0%)	564	12.56%	(0.0%-26.0%)	845	6,728	11.65%	(-1.0%-23.0%)	177	18.32%	(2.0%-36.0%)	279	1,523	10.28%	(-2.0%-23.0%)	116	15.68%	(1.0%-33.0%)	176	1,126	9.14%	(-2.0%-22.0%)	857	13.87%	(1.0%-31.7%)	1,300	9,377
	All age groups	10.48%	(-1.0%-22.0%)	1,890	16.36%	(1.0%-31.0%)	2,952	18,038	12.53%	(0.0%-24.0%)	779	19.76%	(2.0%-37.0%)	1,227	6,211	11.90%	(-1.0%-24.0%)	520	18.45%	(1.0%-33.0%)	807	4,370	10.92%	(-1.0%-22.0%)	3,127	17.13%	(0.0%-32.0%)	4,904	28,620
2019	18-44	9.39%	(-1.0%-23.0%)	37	14.79%	(1.0%-34.0%)	58	393	12.32%	(0.0%-24.0%)	27	19.60%	(1.0%-37.0%)	44	223	11.40%	(-1.0%-23.0%)	25	17.69%	(1.0%-34.0%)	39	218	10.70%	(-0.7%-23.3%)	89	16.83%	(1.0%-35.0%)	140	834
	45-64	11.71%	(-1.0%-24.0%)	610	18.26%	(1.0%-35.0%)	951	5,205	13.67%	(0.0%-26.0%)	343	21.51%	(1.0%-40.0%)	539	2,507	13.18%	(-1.0%-26.0%)	216	20.40%	(1.0%-38.0%)	335	1,642	12.49%	(-0.7%-25.3%)	1,169	19.51%	(1.0%-37.7%)	1,825	9,354
	65-74	11.21%	(-1.0%-23.0%)	707	17.40%	(1.0%-33.0%)	1,098	6,310	13.07%	(0.0%-25.0%)	267	20.63%	(1.0%-39.0%)	421	2,039	11.71%	(0.0%-26.0%)	132	18.26%	(1.0%-39.0%)	207	1,131	11.67%	(-0.3%-24.7%)	1,106	18.20%	(1.0%-37.0%)	1,725	9,481
	75+	8.52%	(-2.0%-19.0%)	614	12.91%	(1.0%-26.0%)	930	7,210	11.08%	(-1.0%-23.0%)	167	17.26%	(1.0%-33.0%)	261	1,511	9.63%	(-2.0%-21.0%)	111	14.94%	(0.0%-30.0%)	173	1,157	9.04%	(-2.0%-21.3%)	893	13.81%	(0.7%-29.7%)	1,364	9,878
	All age groups	10.38%	(-1.0%-22.0%)	1,985	16.23%	(1.0%-31.0%)	3,102	19,118	12.76%	(0.0%-25.0%)	801	20.21%	(1.0%-38.0%)	1,269	6,280	11.95%	(-1.0%-24.0%)	496	18.54%	(1.0%-35.0%)	769	4,149	10.78%	(-1.0%-22.0%)	3,186	17.18%	(1.0%-31.0%)	5,076	29,547
2020	18-44	9.46%	(-2.0%-23.0%)	29	14.83%	(0.0%-33.0%)	46	311	11.84%	(0.0%-23.0%)	29	18.67%	(1.0%-35.0%)	46	246	11.19%	(-2.0%-23.0%)	26	17.22%	(0.0%-33.0%)	40	232	10.71%	(-1.3%-23.0%)	85	16.73%	(0.3%-33.7%)	132	790
	45-64	11.79%	(-1.0%-24.0%)	601	18.37%	(1.0%-35.0%)	935	5,093	14.22%	(0.0%-27.0%)	375	22.27%	(2.0%-41.0%)	588	2,639	13.40%	(-1.0%-26.0%)	238	20.68%	(1.0%-39.0%)	367	1,775	12.77%	(-0.7%-25.7%)	1,214	19.88%	(1.3%-38.0%)	1,890	9,507
	65-74	11.91%	(-1.0%-24.0%)	745	18.37%	(1.0%-35.0%)	1,150	6,259	13.25%	(-1.0%-26.0%)	262	20.60%	(1.0%-39.0%)	408	1,979	11.79%	(-1.0%-26.0%)	154	18.37%	(1.0%-38.0%)	240	1,306	12.17%	(-1.0%-25.3%)	1,161	18.83%	(1.0%-37.3%)	1,797	9,544
	75+	8.53%	(-2.0%-20.0%)	612	12.91%	(1.0%-26.0%)	927	7,179	10.67%	(-1.0%-22.0%)	171	16.84%	(1.0%-33.0%)	270	1,603	11.00%	(-1.0%-22.0%)	114	17.24%	(1.0%-33.0%)	179	1,036	9.14%	(-1.3%-21.0%)	897	14.01%	(1.0%-30.7%)	1,375	9,818
	All age groups	10.62%	(-1.0%-22.0%)	1,983	16.40%	(1.0%-32.0%)	3,091	18,842	12.71%	(0.0%-25.0%)	822	19.99%	(1.0%-38.0%)	1,293	6,468	11.88%	(-1.0%-24.0%)	517	18.35%	(1.0%-35.0%)	798	4,349	10.80%	(-1.0%-22.0%)	3,202	16.99%	(0.0%-32.0%)	5,040	29,659
2021	18-44	9.50%	(-1.0%-23.0%)	42	14.85%	(1.0%-34.0%)	65	437	12.44%	(0.0%-24.0%)	38	19.59%	(1.0%-37.0%)	60	309	11.28%	(-1.0%-23.0%)	29	17.53%	(1.0%-34.0%)	45	256	10.86%	(-0.7%-23.3%)	109	16.99%	(1.0%-35.0%)	170	1,002
	45-64	11.70%	(-1.0%-24.0%)	612	18.08%	(1.0%-35.0%)	945	5,226	14.27%	(0.0%-27.0%)	391	22.13%	(2.0%-41.0%)	606	2,739	12.97%	(-1.0%-26.0%)	227	19.89%	(1.0%-38.0%)	347	1,747	12.65%	(-0.7%-25.7%)	1,229	19.55%	(1.3%-38.0%)	1,899	9,711
	65-74	11.78%	(-1.0%-24.0%)	836	18.14%	(1.0%-35.0%)	1,288	7,096	14.31%	(0.0%-27.0%)	315	22.36%	(2.0%-41.0%)	492	2,202	11.70%	(-1.0%-26.0%)	173	18.08%	(1.0%-37.0%)	267	1,476	12.28%	(-0.7%-25.7%)	1,324	19.00%	(1.3%-37.7%)	2,047	10,775
	75+	8.72%	(-2.0%-20.0%)</																										

Table S3: Total Number of Incident MM Cases Attributable to Diabetes Mellitus (DM) in Adults 18 Years or Older, 2016-21

Year	Age	NHW				NHB				Hispanic				All races			
		PAF	95% CI	Attributable	Total	PAF	95% CI	Attributable	Total	PAF	95% CI	Attributable	Total	PAF	95% CI	Attributable	Total
2016	18-44	0.03%	0.0%-1.0%	0	302	0.90%	0.0%-1.0%	3	285	0.04%	0.0%-1.0	0	254	0.33%	0.0%-1.0%	3	841
	45-64	1.27%	1.0%-2.0%	68	5,372	2.18%	1.0%-3.0%	47	2,172	2.32%	1.0%-3.0%	39	1,673	1.68%	1.0%-2.7%	154	9,217
	65-74	2.29%	1.0%-3.0%	139	6,082	4.44%	3.0%-6.0%	82	1,843	1.27%	2.0%-5.0%	13	998	2.62%	2.0%-4.7%	234	8,923
	75+	2.41%	1.0%-3.0%	159	6,620	3.59%	2.0%-5.0%	56	1,563	3.68%	2.0%-6.0%	37	994	2.75%	1.7%-4.7%	252	9,177
	All age groups	1.03%	1.0%-2.0%	189	18,377	1.62%	1.0%-2.0%	95	5,863	1.05%	1.0%-2.0%	41	3,919	1.25%	1.0%-2.0%	352	28,158
2017	18-44	0.01%	0.0%-0.0%	0	371	0.35%	0.0%-1.0%	1	266	0.01%	0.0%-0.0%	0	253	0.11%	0.0%-0.3%	1	891
	45-64	1.16%	1.0%-2.0%	61	5,248	2.51%	1.0%-4.0%	59	2,358	2.34%	1.0%-3.0%	40	1,712	1.72%	1.0%-3.0%	160	9,318
	65-74	2.53%	2.0%-4.0%	152	5,986	4.13%	2.0%-6.0%	75	1,808	1.16%	2.0%-6.0%	14	1,209	2.67%	2.0%-5.3%	240	9,003
	75+	2.16%	1.0%-3.0%	138	6,418	5.09%	3.0%-7.0%	75	1,467	4.16%	2.0%-6.0%	40	952	2.86%	2.0%-5.3%	253	8,837
	All age groups	1.01%	1.0%-1.0%	182	18,024	1.65%	1.0%-2.0%	97	5,899	1.07%	1.0%-2.0%	44	4,126	1.29%	1.0%-1.0%	361	28,049
2018	18-44	0.01%	0.0%-1.0%	0	433	0.30%	0.0%-1.0%	1	287	0.10%	0.0%-1.0%	0	238	0.12%	0.0%-1.0%	1	958
	45-64	1.50%	1.0%-2.0%	73	4,874	2.39%	1.0%-3.0%	58	2,428	2.58%	2.0%-4.0%	48	1,876	1.96%	1.3%-3.0%	180	9,178
	65-74	2.55%	2.0%-4.0%	153	6,004	4.27%	2.0%-6.0%	84	1,973	1.50%	2.0%-6.0%	17	1,130	2.80%	2.0%-5.3%	255	9,107
	75+	2.30%	1.0%-3.0%	155	6,728	3.61%	2.0%-5.0%	55	1,523	3.06%	2.0%-5.0%	34	1,126	2.60%	1.7%-4.3%	244	9,377
	All age groups	1.08%	1.0%-2.0%	195	18,038	1.52%	1.0%-2.0%	95	6,211	1.14%	1.0%-2.0%	50	4,370	1.28%	1.0%-2.0%	365	28,620
2019	18-44	0.10%	0.0%-1.0%	0	393	0.54%	0.0%-1.0%	1	223	0.33%	0.0%-1.0%	1	218	0.28%	0.0%-1.0%	2	834
	45-64	1.65%	1.0%-2.0%	86	5,205	2.76%	2.0%-4.0%	69	2,507	2.52%	1.0%-4.0%	41	1,642	2.10%	1.3%-3.3%	197	9,354
	65-74	2.46%	1.0%-3.0%	155	6,310	5.00%	3.0%-7.0%	102	2,039	1.65%	2.0%-6.0%	19	1,131	2.91%	2.0%-5.3%	276	9,481
	75+	2.44%	1.0%-3.0%	176	7,210	4.08%	2.0%-6.0%	62	1,511	4.78%	3.0%-7.0%	55	1,157	2.97%	2.0%-5.3%	293	9,878
	All age groups	1.17%	1.0%-2.0%	224	19,118	1.81%	1.0%-3.0%	113	6,280	1.30%	1.0%-2.0%	54	4,149	1.13%	1.0%-2.0%	334	29,547
2020	18-44	0.04%	0.0%-1.0%	0	311	0.68%	0.0%-1.0%	2	246	0.34%	0.0%-1.0%	1	232	0.33%	0.0%-1.0%	3	790
	45-64	1.48%	1.0%-2.0%	75	5,093	2.57%	2.0%-4.0%	68	2,639	2.68%	2.0%-4.0%	48	1,775	2.01%	1.7%-3.3%	191	9,507
	65-74	2.76%	2.0%-4.0%	173	6,259	4.32%	3.0%-6.0%	86	1,979	1.48%	3.0%-6.0%	19	1,306	2.91%	2.7%-5.3%	278	9,544
	75+	2.73%	2.0%-4.0%	196	7,179	4.60%	3.0%-7.0%	74	1,603	5.30%	3.0%-8.0%	55	1,036	3.31%	2.7%-6.3%	325	9,818
	All age groups	1.17%	1.0%-2.0%	221	18,842	1.76%	1.0%-2.0%	114	6,468	1.44%	1.0%-2.0%	63	4,349	1.06%	1.0%-2.0%	313	29,659
2021	18-44	0.00%	0.0%-1.0%	0	437	0.84%	0.0%-1.0%	3	309	0.36%	0.0%-1.0%	1	256	0.35%	0.0%-1.0%	4	1,002
	45-64	1.55%	1.0%-2.0%	81	5,226	2.48%	1.0%-4.0%	68	2,739	2.54%	2.0%-4.0%	44	1,747	1.99%	1.3%-3.3%	193	9,711
	65-74	2.85%	2.0%-4.0%	202	7,096	4.55%	3.0%-6.0%	100	2,202	1.55%	3.0%-6.0%	23	1,476	3.02%	2.7%-5.3%	325	10,775
	75+	2.43%	1.0%-3.0%	181	7,433	4.06%	2.0%-6.0%	74	1,818	3.85%	2.0%-6.0%	44	1,149	2.87%	1.7%-5.0%	299	10,400
	All age groups	1.17%	1.0%-2.0%	237	20,192	1.76%	1.0%-2.0%	124	7,068	1.44%	1.0%-2.0%	67	4,628	1.07%	1.0%-2.0%	341	31,887
2016-21 Weighted Average		1.11%	~	208	18,765	1.69%	~	106	6,298	1.25%	~	53	4,257	1.17%	~	344	29,320

Abbreviations: PAF, Population Attributable Fraction; CI, Confidence Interval; NHW, Non-Hispanic White; NHB, Non-Hispanic Black

All Races: Non-Hispanic White + Non-Hispanic Black + Hispanic