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Racial differences in the proportion of myeloma cases attributable to excess body weight

and diabetes mellitus in the United States

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Data-sharing Statement

The data used in this manuscript is publicly available as described in the methods.

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Conflicts of Interest

U.A.S. reports support research funding support from Celgene/BMS and Janssen to the institution; research support from Sabinsa Pharmaceuticals and M&M Labs to the institution; and consulting/advisory board from Janssen Biotech, Sanofi, and i3Health outside the submitted work.

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Author Contributions

A.A., D.R. collected data, performed the analysis, wrote the manuscript with support from U.A.S. A.D. contributed to data and analysis tools, performed the analysis. S.Z.U. contributed to manuscript review and revision. U.A.S. conceived the study concept, designed the analysis. All authors reviewed and revised the final manuscript.

Multiple myeloma (MM) is a hematologic malignancy that disproportionately affects Black populations. In the US, Black individuals are twice as likely to be diagnosed with MM compared to their White counterparts⁽¹⁾. This disparity can be attributed to a combination of genetic, socio-environmental and lifestyle factors. Notably, modifiable risk factors such as elevated body mass index (BMI) and diabetes mellitus (DM) have been identified as risk factors for MM⁽²⁻⁴⁾. MM is one of 13 cancers associated with obesity⁽⁵⁾. The prevalence of obesity and DM is also higher in non-Hispanic Black (NHB) and Hispanic adults than in non-Hispanic White (NHW) adults⁽⁶⁾.

Recent studies have highlighted concerning trends in MM incidence. For instance, the incidence of MM has risen among young adults in the United States⁽⁷⁾. Globally, MM incidence has shown an increasing trend over the past several decades⁽⁸⁾, with this rise paralleling an increase in obesity prevalence. This pattern is consistent with research indicating that obesity is a risk factor for MM, and maybe driven by multiple mechanisms such as chronic inflammation where stressed adipocytes and fat-infiltrating immune cells secrete adipokines and inflammatory cytokines which facilitate MM expansion⁽⁹⁾. Similarly, DM is also considered as a risk factor for MM with possible mechanisms including hyperinsulinemia, hyperglycemia, inflammation, immune suppression, and increased insulin-like growth factor^(3, 10).

As obesity and DM rates continue to rise in the US and worldwide, its effect on incidence of obesity-related neoplasms such as MM, make it important to estimate the percentage of MM cases attributed to elevated BMI and DM. Additionally given the differences in MM risk by race, we further evaluated the contribution of these modifiable risk factors by racial groups. Therefore, our study aims to quantify the proportion of MM cases attributable to these modifiable risk factors among adults aged 18 and older. We calculated the population attributable fraction (PAF) which is an estimate of the proportion of cases attributable to elevated BMI or DM overall and for NHWs. NHBs and Hispanics⁽¹¹⁾.

This study was conducted using de-identified, publicly available data and did not require institutional review board approval or patient written consent. It respects the ethical research guidelines and considerations set in the United States. The number of MM cancer cases from 2016 to 2021 in the United States (US), including stratification by age, race, and ethnicity, was obtained from the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program⁽¹⁾.

Data on prevalence of overweight (BMI: 25-30 kg/m²) and obese (BMI: ≥30 kg/m²) BMI and DM per race for age groups 18-44, 45-64, 65-74 and 75+ years from 2006-11 was obtained from the Integrated Public Use Microdata Series (IPUMS) Health Surveys database which harmonizes the National Health Interview Survey (NHIS) data provided by the National Center for Health Statistics (Table S1)^(6, 12). NHIS is a survey collecting information on the health, health care access, and health behaviors of the civilian, non-institutionalized U.S. population, with digital data files available from 1963 to present. We used the 2006-to-2011-time frame to allow for an approximate 10-year lag period between BMI and DM prevalence and MM occurrence based on prior literature⁽¹¹⁾ given similar rate of progression from MGUS to MM by race/ethnicity⁽¹³⁾.

We calculated the PAF of incident MM cases attributable to BMI and DM based on hazard ratios (HR) estimates from two large epidemiologic studies evaluating MM risk with elevated BMI in the NIH AARP Diet and Health Study and DM using healthcare databases from Ontario, Canada^(2, 3). The estimate of MM risk for overweight HR 1.09 (95% confidence interval (CI): 0.82 - 1.47) was used. For obesity the lower range estimates HR 1.26 (95% CI: 1.01 - 1.64) based on BMI 30-34.9 kg/m² and upper range estimates HR 1.55 (95% CI: 1.01 - 2.39) based on BMI ≥35 kg/m² for MM risk were used. CIs were set to have the same p-value as reported for BMI ≥35 kg/m² patients⁽²⁾. For elevated BMI we utilized two estimates - BMI PAF_{BMI30} (overweight and

lower range obesity HR estimates) and BMI PAF_{BMI35} (overweight and upper range obesity HR estimates). The estimate of MM risk for DM HR 1.15 (95% CI: 1.09 - 1.23) was used. The race and age-specific PAFs with corresponding 95% CIs were estimated using 10,000 parametric bootstrap replications based on above hazard ratios, BMI or DM prevalence, and corresponding standard errors estimated from NHIS data.

Across all age groups, NHB and Hispanic populations have higher obesity rates compared to NHW populations (Table S1). For example, in the 45-64 age group, obesity affected 44% of NHB, 37.5% of Hispanics and 34% of NHW whereas for ages 65-74, rates were 41.9% in NHB, 36.3% in Hispanics and 32.3% in NHW (Table S1). The PAF_{BMI30} for MM cases attributable to elevated BMI is 10.8% (95% CI: -1.0-22.0%) overall, 12.7% (95% CI: 0.0-24.7%) in NHB, 11.7% (95% CI: -1.0-23.7%) in Hispanics and 10.5% (95% CI: -1.0-21.8%) in NHW (Tables 1 and S2, Figure 1A). Whereas the PAF_{BMI35} is 17.1% (95% CI: 0.3-31.7%) overall, 20.0% (95% CI: 1.5-37.3%) in NHB, 18.1% (95% CI: 0.8-34.2%) in Hispanics and 16.3% (95% CI: 0.8-31.3%) in NHW (Tables 1 and S2, Figure 1B). Therefore, an additional 2.3-3.7% of MM cases in NHBs and an additional 1.2-1.8% of MM cases in Hispanics may be attributable to elevated BMI when compared to NHW.

Similarly, DM prevalence was significantly higher in NHB populations compared to NHW populations across all age groups, with a greater increase observed in NHBs as age advanced. For example, in the 45-64 age group, rates were 17.0% in NHB, 17.1% in Hispanics versus 9.9% in NHW and for ages 65-74, it was 31.1% in NHB, 29.3% in Hispanics and 16.5% in NHW (Table S1). These findings highlight a significantly higher proportion of DM in NHB and Hispanics. The PAF_{DM} of MM cases being attributable to DM is 1.2% (95% CI: 1.0-1.8%) overall, 1.7% (95% CI: 1.0-2.2%) in NHB, 1.2% (95% CI: 1.0-2.0%) in Hispanics and 1.1% (95% CI: 1.0-1.0%)

1.8%) in NHW (Tables 1 and S3, Figure 1C). Thus, an additional 0.6% of MM cases in NHBs and an additional 0.1% of MM cases in Hispanics may be attributable to DM compared to NHW.

We applied these findings to estimate the annual number of MM cases that were attributable to elevated BMI and DM. We estimate there were 31,780⁽¹⁴⁾ average newly diagnosed MM cases annually in the US between 2016-2021 of which 29,320 cases were in NHWs, NHBs and Hispanics. Of these MM cases, at least 3178 (PAF_{BMI30} = 10.84%) and up to 5026 (PAF_{BMI35} = 17.14%) cases were attributable to an elevated BMI. In NHW there were between 1963-3063 cases out of 18,765 cases (PAF_{BMI30} = 10.46%; PAF_{BMI35} = 16.32%), in NHB there were between 800-1261 cases out of 6298 cases (PAF_{BMI30} = 12.7%; PAF_{BMI35} = 20.0%), and in Hispanics there were between 496-769 cases out of 4257 (PAF_{BMI30} = 11.66%, PAF_{BMI35} = 18.06%) attributable to an elevated BMI (Table 1). Similarly, up to 345 (PAF_{DM} = 1.18%) cases were attributable to DM. In NHW, there were 207 cases out of 18,765 cases (PAF_{DM} = 1.1%), in NHB, there were 106 cases out of 6298 cases (PAF_{DM} =1.7%), and in Hispanics, there were about 52 cases out of 4257 cases (PAF_{DM} = 1.2%) attributable to DM (Table 1). These findings suggest that preventive methods could be successful in decreasing the incidence of MM.

Strengths of this analysis include utilizing risk estimates from large epidemiologic studies and data from national publicly available datasets and a 5-year period over which we assessed risk with an estimated 10-year lag time to account for time from metabolic disorder to MM diagnosis. Some limitations include the estimates utilized being limited by available research with wide confidence intervals, elevated BMI and DM status are self-reported so they may be underreported, and prediabetes may also increase risk and was not included in the estimates. BMI and DM have been analyzed as separate conditions, as it was not possible to conduct an interaction analysis for those with a concomitant diagnosis of elevated BMI and DM with the

available data. All races were also not included and therefore the absolute number of cases attributable to these risk factors is likely an underestimate. While elevated BMI and DM contribute to a substantial proportion of the increased risk of MM overall, it does not fully account for the two times higher incidence in NHB compared to NHW.

These findings suggest a need for researching comprehensive lifestyle intervention strategies to lower BMI and reduce DM incidence among the general population. Dietary trials such as NUTRIVENTION (NCT04920084, NCT05640843) are evaluating whether strategies such as high fiber plant based diets that reduce weight, insulin resistance and improve microbiome composition and inflammation may delay progression from monoclonal gammopathy of undetermined significance (MGUS) and smoldering multiple myeloma (SMM) to MM and early evidence suggests this may be possible in certain cases⁽¹⁵⁾. Drug strategies such as the glucagon-like peptide 1 receptor agonists (GLP-1RAs) are being used widely for weight and DM management. They have been associated with reduced risk of obesity-related cancers such as MM when compared with insulin or metformin in patients with type 2 DM⁽¹⁶⁾ although interventional trials for cancer risk reduction are lacking. Thus, drugs such as GLP-1RAs and lifestyle strategies such as fiber rich diets highlight potential strategies for MM risk reduction to reduce the significant financial, emotional, and social burden of this diagnosis.

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Table 1: Estimated Number of Multiple Myeloma (MM) cases Attributable to Elevated Body Mass Index (BMI) and Diabetes Mellitus (DM) in Adults 18 Years or Older, 2016-2021

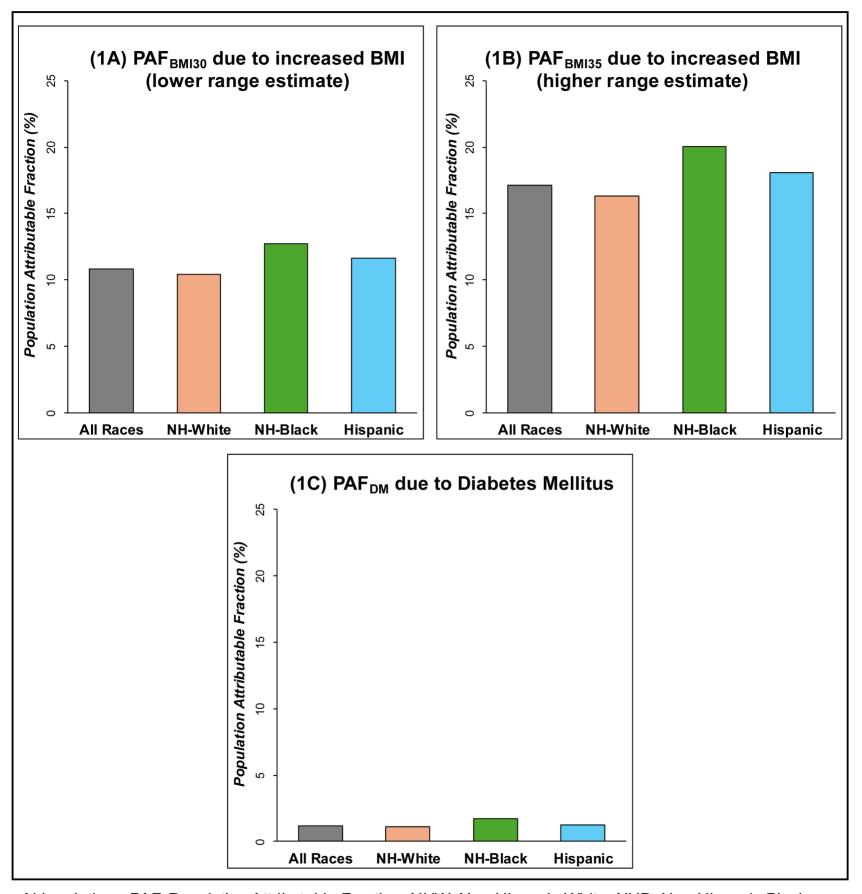
The estimated proportion and average number of multiple myeloma cases attributable to elevated body mass index (BMI) and diabetes mellitus across different racial and ethnic groups. The population attributable fraction (PAF) and corresponding 95% confidence intervals (CIs) are reported for BMI-related risk estimates based on hazard ratios corresponding to the lower and upper ranges of obesity (PAF_{BMI30} and PAF_{BMI35}, respectively), as well as for diabetes mellitus-related risk estimates (PAF_{DM}). The number of attributable cases is calculated for each category, and total cases are provided for all racial and ethnic groups, including Non-Hispanic White (NHW), Non-Hispanic Black (NHB), and Hispanic populations.

Annual MM cases	Cases PAF 95% CI	All Races	NHW	NHB	Hispanic
Overall estimate	Cases - N	29,320	18,765	6,298	4,257
Elevated BMI	PAF _{BMI30} %	10.8%	10.5%	12.7%	11.7%
(lower range)	95% CI	(-1.0%-22.0%)	(-1.0%-21.8%)	(0.0%-24.7%)	(-1.0%-23.7%)
estimate	Cases - N	3,178	1,963	800	496
Elevated BMI	PAF _{BMI35} %	17.1%	16.3%	20.0%	18.1%
(upper range)	95% CI	(0.3%-31.7%)	(0.8%-31.3%)	(1.5%-37.3%)	(0.8%-34.2%)
estimate	Cases - N	5,026	3,063	1,261	769
Diabetes mellitus	PAF _{DM} %	1.2%	1.1%	1.7%	1.2%
estimate	95% CI	(1.0%-1.8%)	(1.0%-1.8%)	(1.0%-2.2%)	(1.0%-2.0%)
	Cases - N	345	207	106	52

Abbreviations: MM, multiple myeloma; PAF, Population Attributable Fraction; N, number of attributable cases; NHW, Non-Hispanic White; NHB, Non-Hispanic Black. All Races: Aggregate of Non-Hispanic White + Non-Hispanic Black + Hispanic; CI, confidence interval.

Figure 1: Population Attributable Fraction (PAF) values due to Elevated Body Mass Index and Diabetes Mellitus, 2016-21

- (1A): Population Attributable Fraction (PAF_{BMI30}) of multiple myeloma cases attributable to elevated body mass index, calculated using hazard ratios corresponding to the lower range of obesity estimates (BMI 30-34.9 kg/m²).
- (1B): Population Attributable Fraction (PAF_{BMI35}) of multiple myeloma cases attributable to elevated body mass index, calculated using hazard ratios corresponding to the upper range of obesity estimates (BMI ≥35 kg/m²).
- (1C): Population Attributable Fraction (PAF_{DM}) of multiple myeloma cases attributable to diabetes mellitus, calculated using hazard ratio estimates for diabetes mellitus.



Abbreviations: PAF, Population Attributable Fraction; NHW, Non-Hispanic White; NHB, Non-Hispanic Black. All Races: Aggregate of Non-Hispanic White + Non-Hispanic Black + Hispanic.

Table S1: Prevalence

Overweight Prevalence															
Year		Non-Hispa	anic White			Non-Hispa	anic Black		Hispanic						
i eai	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-Hispa	anic White			Non-Hispa	anic Black		Hispanic						
ı cui	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+			
2006	25.90%	33.90%	30.90%	20.70%	35.10%	43.10%	42.10%	36.90%	28.70%	34.10%	35.50%	30.50%			
2007	26.60%	33.40%	31.80%	21.30%	38.50%	43.20%	39.20%	28.70%	31.70%	34.80%	27.50%	23.20%			
2008	25.40%	35.30%	32.80%	18.90%	37.00%	42.50%	41.00%	34.80%	32.80%	38.70%	36.20%	26.30%			
2009	25.30%	33.60%	31.10%	19.80%	38.50%	43.60%	41.30%	31.00%	31.80%	39.00%	41.90%	25.30%			
2010	25.70%	34.20%	33.70%	20.10%	35.80%	46.10%	40.50%	31.00%	30.60%	40.20%	39.20%	31.70%			
2011	25.70%	33.40%	33.40%	20.70%	38.80%	45.50%	46.80%	32.10%	32.20%	37.90%	37.50%	28.40%			
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 I	Mellitus Prevaler	ice								
Year		Non-Hispa	anic White			Non-Hispa	anic Black		Hispanic						
	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+	18-44	45-64	65-74	75+			
2006	2.30%	9.00%	15.60%	16.40%	4.80%	14.90%	31.00%	24.80%	2.30%	15.90%	25.10%	25.60%			
2007	2.00%	8.50%	17.40%	14.80%	3.10%	17.30%	28.80%	35.80%	2.00%	16.00%	30.10%	29.00%			
2008	2.10%	10.20%	17.50%	15.70%	3.00%	16.40%	29.70%	25.00%	2.50%	17.70%	27.80%	21.10%			
2009	2.60%	11.10%	16.90%	16.80%	3.50%	19.00%	35.30%	28.60%	3.10%	17.30%	29.30%	33.70%			
2010	2.40%	10.10%	19.00%	18.70%	3.90%	17.60%	30.20%	32.20%	3.10%	18.40%	31.70%	37.40%			
2011	1.90%	10.40%	19.50%	16.60%	4.30%	16.90%	31.80%	28.20%	3.10%	17.40%	32.00%	26.70%			
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

	NHW			NHB					Hispanic					All races															
Year	Age	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
	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
2016	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
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	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
2017	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
			•			•					•		•		•		•					•	•				•		
	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	1,876	12.50%	(-0.3%-25.3%)	1,148	19.55%	(1.3%-36.0%)	1,795	9,178
2018	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
	18-44	9.39%	(-1.0%-23.0%)	37	14.78%	(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
2019	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%	(-3.0%-20.0%)	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
	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%-38.3%)	1,890	9,507
2020	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%-19.0%)	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	10.52%	(-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
	18-44	9.50%	(-1.0%-23.0%)	42	14.83%	(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
2021	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%)	648	13.14%	(1.0%-27.0%)	977	7,433	11.45%	(-1.0%-23.0%)	208	17.64%	(1.0%-34.0%)	321	1,818	10.57%	(-2.0%-22.0%)	121	16.24%	(0.0%-32.0%)	187	1,149	9.40%	(-1.7%-21.7%)	978	14.27%	(0.7%-31.0%)	1,484	10,400
	All age groups	10.52%	(-1.0%-22.0%)	2,124	16.30%	(1.0%-32.0%)	3,291	20,192	13.15%	(0.0%-25.0%)	929	20.59%	(2.0%-39.0%)	1,455	7,068	11.81%	(-1.0%-24.0%)	547	18.26%	(1.0%-35.0%)	845	4,628	10.63%	(-1.0%-22.0%)	3,389	16.96%	(0.0%-32.0%)	5,407	31,887
		40 4007			40.000/	1		40 =0=	40 2007		4 000			4 000		44.000/			40.000/				40.000/			4= 4407			
2016-21 Weighte	d Average	10.46%	~	3,062	16.32%	~	3,062	18,765	12.72%	~	1,262	20.04%	~	1,262	6,298	11.67%	~	770	18.08%	~	770	4,257	10.83%	~	5,024	17.14%	~	5,024	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

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

Var App	Year	Ago		NHV				NHB			Hispa	nic		All races				
45-64 127% 10%-20% 88 5,372 2.99% 10%-20% 47 2.172 2.23% 10%-30% 30 1073 1.68% 11%-27% 1564 2.217	rear	Age	PAF	95% CI	Attributable	Total	PAF	95% CI	Attributable	Total	PAF	95% CI	Attributable	Total	PAF	95% CI	Attributable	Total
05-74 2.29% 1.0%-3.0% 189 6.982 4.44% 3.9%-6.0% 82 1.983 1.27% 2.2%-6.0% 37 996 2.65% 2.0%-7% 2.24 8.327 70° 2.44% 1.0%-2.0% 1.98 6.620 3.89% 2.0%-6.0% 98 6.863 1.69% 1.989 3.89% 2.26% 2.0%-7% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.22 2.71% 2.23% 2.24%					0				3			0.0%-1.0	0			0.0%-1.0%		
Total Tota									47				39					
All age groups	2016																	
16-44 0.01% 0.094-0.0% 0.9-1.0% 0.05% 0.05% 0.094-1.0% 1 266 0.01% 0.094-0.0% 0 23 0.11% 0.094-0.5% 1 801 0.048 0.05% 0.05% 0.05% 0.094-0.0% 0 23 0.11% 0.094-0.5% 1 801 0.048 0.05%									56				37					
45-64 1.10% 1.0%-2.0% 61 5.248 2.51% 1.0%-4.0% 59 2.388 2.34% 1.0%-3.0% 40 1.772 1.72% 1.0%-3.0% 160 9.318		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
45-64 1.10% 1.0%-2.0% 61 5.248 2.51% 1.0%-4.0% 59 2.388 2.34% 1.0%-3.0% 40 1.772 1.72% 1.0%-3.0% 160 9.318																		
165-74 2,53% 2,0%-4,0% 152 5,988 4,13% 2,0%-6,0% 75 1,808 1,16% 2,0%-6,0% 44 1,209 2,07% 2,0%-5,3% 240 9,003 1,0% 1,0%-1,0%		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
Tys		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
All age groups 1.01%	2017	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
16-44 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 4.564 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 3.178 2.5574 2.55% 2.0%-4.0% 153 6.004 4.27% 2.0%-5.0% 58 4.1,973 1.50% 2.0%-6.0% 17 1.130 2.80% 2.2%-5.3% 2.25 3.10% 2.0%-6.0% 17 1.130 2.80% 2.2%-5.3% 2.25 3.10% 2.0%-6.0% 17 1.130 2.80% 2.2%-5.3% 2.25 3.10% 2.0%-6.0% 17 1.130 2.80% 2.2%-5.3% 2.25 3.10% 2.0%-6.0% 17 1.130 2.80% 2.2%-5.3% 2.25 3.10% 2.0%-5.0% 55 1.523 3.00% 2.0%-5.0% 34 1.128 2.20% 1.7%-4.3% 1.0%-2.0% 385 2.8620 2.0%-5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0% 5.0%		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
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 1.576 1.96% 1.96% 2.0%-5.0% 180 9.178 65-74 2.55% 2.0%-4.0% 153 6.004 4.27% 2.0%-6.0% 84 1.073 1.50% 2.0%-6.0% 17 1.130 2.20% 2.0%-5.3% 2.55 9.107 75+ 2.30% 1.0%-3.0% 155 6.728 3.61% 2.0%-6.0% 55 1.523 3.06% 2.0%-5.0% 34 1.128 2.20% 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 2.8,620 1.0%-2.0% 1.0%-2.0		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
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 1.576 1.96% 1.96% 2.0%-5.0% 180 9.178 65-74 2.55% 2.0%-4.0% 153 6.004 4.27% 2.0%-6.0% 84 1.073 1.50% 2.0%-6.0% 17 1.130 2.20% 2.0%-5.3% 2.55 9.107 75+ 2.30% 1.0%-3.0% 155 6.728 3.61% 2.0%-6.0% 55 1.523 3.06% 2.0%-5.0% 34 1.128 2.20% 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 2.8,620 1.0%-2.0% 1.0%-2.0																		
2018 65-74 2.55% 2.0%-0.0% 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 All age groups 1.08% 1.08% 2.0% 155 6.728 3.61% 2.0%-6.0% 55 1.523 3.06% 2.0%-5.0% 56 4.370 1.28% 1.0%-2.0% 365 28.620 2019 18-44 0.10% 0.0%-1.0% 0.0%-1.0% 1.55 6.310 5.00% 3.0%-7.0% 102 2.0%-6.0% 102 2.509 1.55% 2.0%-6.0% 19 1.131 2.91% 1.3%-3.3% 107 9.334 4.594 1.0%-2.0% 155 6.310 5.00% 3.0%-7.0% 102 2.0%-6.0% 102 2.059 1.55% 2.0%-6.0% 19 1.131 2.91% 2.0%-5.3% 2.03 9.878 All age groups 1.17% 1.0%-2.0% 24 19.118 1.81% 1.0%-3.0% 113 6.280 1.30% 0.0%-1.0% 1 2.32 0.33% 0.0%-1.0% 54 4.149 1.13% 1.0%-2.0% 334 2.58-77 2020 18-44 0.04% 0.0%-1.0% 0 311 0.66% 0.0%-1.0% 2 2.46 0.34% 0.0%-1.0% 1 2.32 0.33% 0.0%-1.0% 3 790 1.28% 3.0%-6.0% 19 1.131 0.0%-2.0% 334 2.58-77 2020 18-44 0.04% 0.04% 0.0%-1.0% 0 311 0.66% 0.0%-1.0% 2 2.46 0.34% 0.0%-1.0% 1 2.32 0.33% 0.0%-1.0% 3 790 1.28% 3.0%-0.0% 19 1.1306 2.29%-0.0% 19 1.131 0.0%-2.0% 3.0%-0.0% 19 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 3.0%-0.0% 19 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 3.0%-0.0% 19 1.0%-0		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
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 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 1.0%-1.0% 1.0%-2.0% 195 1.0%-		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
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 28,520 18-44	2018	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
18-44 0.10% 0.0%-1.0% 0 383 0.54% 0.0%-1.0% 1 223 0.33% 0.0%-1.0% 1 218 0.28% 0.0%-1.0% 2 834 18-44 0.10% 0.0%-1.0% 15 6.310 5.00% 3.0%-1.0% 69 2.507 2.52% 1.0%-4.0% 41 1.642 2.10% 1.3%-3.3% 197 9.354 18-44 0.00% 0.0%-1.0% 2.0% 1.0%-2.0% 18-8 2.0%-6.0% 19 1.131 2.91% 2.0%-5.3% 2.276 9.461 7.54 2.46% 1.0%-2.0% 1.0%-2.0% 1.0%-0.0% 16.5 1.0% 2.0%-6.0% 19 1.131 2.91% 2.0%-5.3% 2.276 9.461 7.54 2.44% 1.0%-2.0% 2.24 19,118 1.81% 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% 2.93 9.678 All age groups 1.17% 1.0%-2.0% 2.24 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 2.9547 1.0%-3.0% 1.0%-2.0% 1.0% 1.0% 1.0%-2.0% 1.0% 1.0%-2.0% 1.0% 1.0% 1.0%-2.0% 1.0% 1.0% 1.0%-2.0% 1.0% 1.0% 1.0%-2.0% 1.0%-2.0% 1.0%-2.0% 1.0% 1.0%-2.0% 1.0%-2.0% 1.0%-2.0% 1.0%-2.0% 1.0%-2.0% 1.0%-2.0% 1		75+		1.0%-3.0%		6,728		2.0%-5.0%	55	1,523	3.06%	2.0%-5.0%	34		2.60%	1.7%-4.3%		
2019 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 4.76% 3.0%-7.0% 55 1.167 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 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 9.504 75+ 2.75% 2.0%-4.0% 196 7.179 4.60% 3.0%-7.0% 74 1.603 5.30% 3.0%-8.0% 55 1.088 3.31% 2.7%-5.3% 278 9.544 75+ 2.75% 2.0%-4.0% 196 7.179 4.60% 3.0%-7.0% 74 1.603 5.30% 3.0%-8.0% 55 1.088 3.31% 2.7%-5.3% 278 9.518 All age groups 1.17% 1.0%-2.0% 21 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 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%-2.0% 68 2.739 2.54% 2.0%-4.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 81 5.226 2.48% 1.0%-4.0% 68 2.739 2.54% 2.0%-4.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 81 5.226 2.48% 1.0%-4.0% 68 2.739 2.54% 2.0%-4.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 81 5.226 2.48% 1.0%-4.0% 68 2.739 2.54% 2.0%-4.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 181 7.433 4.06% 2.0%-6.0% 74 1.818 3.85% 2.0%-6.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 181 7.433 4.06% 2.0%-6.0% 74 1.818 3.85% 2.06-6.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 181 7.433 4.06% 2.0%-6.0% 74 1.818 3.85% 2.06-6.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 2.0%-4.0% 2.0%-4.0% 181 7.433 4.06% 2.0%-6.0% 74 1.818 3.85% 2.06-6.0% 44 1.749 2.06% 34 1.33%-3.3% 193 9.711 2021 65		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 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 4.76% 3.0%-7.0% 55 1.167 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 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 9.504 75+ 2.75% 2.0%-4.0% 196 7.179 4.60% 3.0%-7.0% 74 1.603 5.30% 3.0%-8.0% 55 1.088 3.31% 2.7%-5.3% 278 9.544 75+ 2.75% 2.0%-4.0% 196 7.179 4.60% 3.0%-7.0% 74 1.603 5.30% 3.0%-8.0% 55 1.088 3.31% 2.7%-5.3% 278 9.518 All age groups 1.17% 1.0%-2.0% 21 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 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%-2.0% 68 2.739 2.54% 2.0%-4.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 81 5.226 2.48% 1.0%-4.0% 68 2.739 2.54% 2.0%-4.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 81 5.226 2.48% 1.0%-4.0% 68 2.739 2.54% 2.0%-4.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 81 5.226 2.48% 1.0%-4.0% 68 2.739 2.54% 2.0%-4.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 181 7.433 4.06% 2.0%-6.0% 74 1.818 3.85% 2.0%-6.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 181 7.433 4.06% 2.0%-6.0% 74 1.818 3.85% 2.06-6.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 181 7.433 4.06% 2.0%-6.0% 74 1.818 3.85% 2.06-6.0% 44 1.747 1.99% 1.33%-3.3% 193 9.711 2021 65-74 2.85% 2.0%-4.0% 2.0%-4.0% 2.0%-4.0% 181 7.433 4.06% 2.0%-6.0% 74 1.818 3.85% 2.06-6.0% 44 1.749 2.06% 34 1.33%-3.3% 193 9.711 2021 65																		
2019 65-74 2.46% 1.0%-3.0% 155 6.310 5.00% 3.0%-7.0% 102 2.039 1.85% 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 4.76% 3.0%-7.0% 55 1.157 2.97% 2.0%-5.3% 293 9.678 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 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 334 29.547 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 334 29.547 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 334 29.547 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 334 29.547 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 334 29.547 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 334 29.547 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 334 29.547 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 334 29.547 1.0%-2.0% 54 4.149 1.13% 1.0%-2.0% 34 29.547 1.0%-2.0% 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 1.0%-2.0% 1		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
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 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 1.49% 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 2.75% 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 18-44 0.00% 0.0%-1.0% 0 437 0.84% 0.0%-1.0% 3 3.09 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 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		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
All age groups	2019	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
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% 196 7.179 4.60% 3.0%-6.0% 86 1,979 1.48% 3.0%-6.0% 19 1,306 2.91% 2.7%-6.3% 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%-6.0% 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 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 2021 65-74 2.85% 2.0%-4.0% 202 7,096 4.55% 3.0%-6.0% 100 2,202 1.55% 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		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
2020 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% 2.78 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 14 1 1,0%-2.0% 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 22,659 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0%		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 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% 2.78 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 14 1 1,0%-2.0% 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 22,659 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0%																		
2020 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% 2.78 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 14 1 1,0%-2.0% 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 22,659 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0%		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
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 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		45-64	1.48%	1.0%-2.0%	75	5,093	2.57%	2.0%-4.0%	68	2,639	2.68%		48	1,775	2.01%	1.7%-3.3%	191	9,507
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 18-44	2020	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
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		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
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		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
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																		
2021 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				0.0%-1.0%	0		0.84%	0.0%-1.0%	3			0.0%-1.0%	1			0.0%-1.0%		1,002
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				1.0%-2.0%									44					9,711
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	2021	65-74	2.85%			,			100	, -								
		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
2016-21 Weighted Average 1.11% ~ 208 18,765 1.69% ~ 106 6,298 1.25% ~ 53 4,257 1.17% ~ 344 29,320		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
zu16-21 Weighted Average 1.11% ~ 208 18,765 1.69% ~ 106 6,298 1.25% ~ 53 4,257 1.17% ~ 344 29,320	2010 01101 : :		4 440/			10 -0-	1 200/		100		1 250/				4.470/	1		
	2016-21 Weigh	nted 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