**Supplementary Materials for: Immigrant Mortality Advantage in the United States**

**during the First Year of the COVID-19 Pandemic**

Supplementary Table 1a: Death Counts and Person-Years by Period, Nativity, Race, and Hispanic Origin (Males 25+)

|  | Person-Years 2017-2019 | | | Deaths 2017-2019 | | | Person-Years 2020 | | | Deaths 2020 | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age | US-Born | Foreign-Born | % Foreign | US-Born | Foreign-Born | % Foreign | US-Born | Foreign-Born | % Foreign | US-Born | Foreign-Born | % Foreign |
| White | | | | | | | | | | | | |
| 25-64 | 148,405,348 | 9,387,883 | 5.9 | 809,656 | 40,608 | 4.8 | 48,846,141 | 3,071,804 | 5.9 | 299,964 | 16,229 | 5.1 |
| 65+ | 51,640,027 | 2,971,809 | 5.4 | 2,290,240 | 135,407 | 5.6 | 18,141,281 | 1,053,962 | 5.5 | 890,316 | 56,704 | 6.0 |
| Hispanic | | | | | | | | | | | | |
| 25-64 | 22,089,325 | 23,692,993 | 51.8 | 77,380 | 59,207 | 43.3 | 7,773,596 | 7,980,665 | 50.7 | 35,955 | 36,797 | 50.6 |
| 65+ | 2,584,157 | 3,184,202 | 55.2 | 87,860 | 90,536 | 50.8 | 963,662 | 1,172,670 | 54.9 | 40,395 | 53,037 | 56.8 |
| Black | | | | | | | | | | | | |
| 25-64 | 27,395,042 | 4,428,769 | 13.9 | 209,994 | 14,868 | 6.6 | 9,305,341 | 1,524,246 | 14.1 | 91,031 | 7,522 | 7.6 |
| 65+ | 5,227,722 | 655,980 | 11.1 | 257,449 | 21,900 | 7.8 | 1,892,838 | 241,986 | 11.3 | 115,384 | 12,767 | 10.0 |
| Asian | | | | | | | | | | | | |
| 25-64 | 3,769,757 | 12,858,821 | 77.3 | 7,677 | 24,328 | 76.0 | 1,306,881 | 4,401,213 | 77.1 | 3,359 | 11,034 | 76.7 |
| 65+ | 454,722 | 2,802,651 | 86.0 | 14,829 | 64,933 | 81.4 | 158,720 | 1,039,952 | 86.8 | 5,607 | 31,203 | 84.8 |
| Total | | | | | | | | | | | | |
| 25-64 | 203,670,629 | 50,414,811 | 19.8 | 1,120,041 | 139,213 | 11.1 | 67,912,280 | 16,992,093 | 20.0 | 437,491 | 71,692 | 14.1 |
| 65+ | 60,323,386 | 9,622,406 | 13.8 | 2,664,925 | 313,026 | 10.5 | 21,310,214 | 3,511,294 | 14.1 | 1,058,461 | 153,825 | 12.7 |

Supplementary Table 1b: Death Counts and Person-Years by Period, Nativity, Race, and Hispanic Origin (Females 25+)

|  | Person-Years 2017-2019 | | | Deaths 2017-2019 | | | Person-Years 2020 | | | Deaths 2020 | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age | US-Born | Foreign-Born | % Foreign | US-Born | Foreign-Born | % Foreign | US-Born | Foreign-Born | % Foreign | US-Born | Foreign-Born | % Foreign |
| White | | | | | | | | | | | | |
| 25-64 | 148,946,543 | 9,543,095 | 6.0 | 500,221 | 22,040 | 4.2 | 48,924,968 | 3,105,416 | 6.0 | 180,638 | 8,144 | 4.3 |
| 65+ | 62,364,916 | 4,077,655 | 6.1 | 2,504,145 | 166,485 | 6.2 | 21,799,260 | 1,394,424 | 6.0 | 944,595 | 65,300 | 6.5 |
| Hispanic | | | | | | | | | | | | |
| 25-64 | 21,488,239 | 22,438,984 | 51.1 | 39,906 | 29,386 | 42.4 | 7,490,059 | 7,632,053 | 50.5 | 18,115 | 15,339 | 45.9 |
| 65+ | 3,304,939 | 4,187,876 | 55.9 | 92,640 | 100,033 | 51.9 | 1,218,286 | 1,527,202 | 55.6 | 41,449 | 50,681 | 55.0 |
| Black | | | | | | | | | | | | |
| 25-64 | 30,390,073 | 4,761,760 | 13.5 | 139,396 | 9,785 | 6.6 | 10,249,959 | 1,623,688 | 13.7 | 57,722 | 4,601 | 7.4 |
| 65+ | 7,759,774 | 913,852 | 10.5 | 303,783 | 22,625 | 6.9 | 2,798,003 | 333,867 | 10.7 | 132,625 | 11,891 | 8.2 |
| Asian | | | | | | | | | | | | |
| 25-64 | 3,573,507 | 15,006,139 | 80.8 | 4,266 | 16,015 | 79.0 | 1,225,192 | 5,093,917 | 80.6 | 1,716 | 6,498 | 79.1 |
| 65+ | 546,393 | 3,722,160 | 87.2 | 15,496 | 71,257 | 82.1 | 191,196 | 1,381,273 | 87.8 | 5,913 | 32,244 | 84.5 |
| Total | | | | | | | | | | | | |
| 25-64 | 206,508,802 | 51,797,311 | 20.1 | 693,651 | 77,345 | 10.0 | 68,600,450 | 17,470,825 | 20.3 | 262,927 | 34,640 | 11.6 |
| 65+ | 74,489,250 | 12,913,093 | 14.8 | 2,930,841 | 360,707 | 11.0 | 26,197,590 | 4,640,267 | 15.0 | 1,131,246 | 160,225 | 12.4 |

Supplementary Table 2: Cause of Death Classification

| Cause of Death | ICD-10 Codes |
| --- | --- |
| Covid-19 | U07.1 |
| Respiratory diseases | J00–J06, J09-J18, J20-J47, J60-J70, J80-J86, J90-J99, R09.2, U04 |
| Circulatory diseases | I00–I15, I20-I52, I60-I99 |
| Malignant neoplasms | C00-C97 |
| Alzheimer disease and other dementias | G30-G31, F01-F03 |
| Diabetes | E10–E14 |
| External courses | V01-Y89 |
| All other causes | All codes not listed above |

Supplementary Table 3a: Age-Standardized Death Rates per 100,000 for Men by Period, Age Group, Race, Hispanic Origin, and Nativity (all-cause, all-cause excluding Covid-19, and Covid-19 death rates)

|  | All Cause 2017-2019 | | | | Non-COVID 2020 | | | | COVID-19 2020 | | | | All Cause 2020 | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age | Total | US-Born | Foreign-Born | FB - USB | Total | US-Born | Foreign-Born | FB - USB | Total | US-Born | Foreign-Born | FB - USB | Total | US-Born | Foreign-Born | FB - USB |
| White | | | | | | | | | | | | | | | | |
| 25+ | 1,509.7 | 1,518.2 | 1,378.3 | -139.9 | 1,547.1 | 1,554.0 | 1,443.8 | -110.2 | 147.0 | 143.6 | 202.3 | 58.7 | 1,694.1 | 1,697.6 | 1,646.1 | -51.5 |
| 25-64 | 510.9 | 517.1 | 414.7 | -102.4 | 555.3 | 561.5 | 460.6 | -101.0 | 25.5 | 24.5 | 41.8 | 17.3 | 580.8 | 586.0 | 502.3 | -83.7 |
| 65+ | 4,710.7 | 4,726.5 | 4,466.4 | -260.1 | 4,725.5 | 4,734.4 | 4,594.7 | -139.7 | 536.4 | 525.4 | 716.8 | 191.4 | 5,261.8 | 5,259.8 | 5,311.5 | 51.7 |
| Hispanic | | | | | | | | | | | | | | | | |
| 25+ | 1,083.6 | 1,241.7 | 961.8 | -279.9 | 1,174.4 | 1,299.9 | 1,076.6 | -223.3 | 385.5 | 267.8 | 478.3 | 210.5 | 1,559.9 | 1,567.7 | 1,554.9 | -12.7 |
| 25-64 | 359.2 | 467.7 | 280.0 | -187.7 | 413.5 | 515.8 | 335.4 | -180.3 | 135.1 | 88.5 | 168.6 | 80.1 | 548.6 | 604.3 | 504.1 | -100.2 |
| 65+ | 3,405.2 | 3,722.4 | 3,146.9 | -575.4 | 3,612.9 | 3,812.7 | 3,451.9 | -360.8 | 1,188.2 | 842.4 | 1,470.9 | 628.4 | 4,801.1 | 4,655.1 | 4,922.8 | 267.6 |
| Black | | | | | | | | | | | | | | | | |
| 25+ | 1,835.3 | 1,927.4 | 1,189.1 | -738.2 | 2,010.3 | 2,103.9 | 1,397.9 | -706.0 | 327.9 | 314.3 | 437.6 | 123.3 | 2,338.1 | 2,418.2 | 1,835.5 | -582.7 |
| 25-64 | 757.5 | 821.5 | 365.3 | -456.2 | 882.5 | 959.5 | 428.2 | -531.3 | 96.5 | 95.9 | 101.2 | 5.3 | 979.0 | 1,055.4 | 529.4 | -526.0 |
| 65+ | 5,289.3 | 5,471.4 | 3,829.3 | -1,642.1 | 5,624.4 | 5,771.3 | 4,505.4 | -1,265.9 | 1,069.4 | 1,014.2 | 1,515.8 | 501.6 | 6,693.8 | 6,785.5 | 6,021.2 | -764.3 |
| Asian | | | | | | | | | | | | | | | | |
| 25+ | 802.2 | 972.4 | 768.7 | -203.7 | 842.1 | 1,009.1 | 810.7 | -198.4 | 157.3 | 90.1 | 168.3 | 78.2 | 999.4 | 1,099.2 | 979.0 | -120.2 |
| 25-64 | 222.6 | 315.0 | 204.2 | -110.8 | 246.0 | 360.7 | 223.1 | -137.6 | 44.6 | 39.5 | 44.8 | 5.3 | 290.6 | 400.2 | 267.9 | -132.3 |
| 65+ | 2,659.8 | 3,079.0 | 2,577.7 | -501.3 | 2,752.6 | 3,086.7 | 2,693.5 | -393.2 | 518.3 | 252.5 | 564.2 | 311.6 | 3,270.9 | 3,339.2 | 3,257.7 | -81.6 |
| Total | | | | | | | | | | | | | | | | |
| 25+ | 1,467.9 | 1,546.1 | 1,055.9 | -490.1 | 1,521.5 | 1,599.5 | 1,134.3 | -465.2 | 191.7 | 169.1 | 311.1 | 142.1 | 1,713.2 | 1,768.6 | 1,445.5 | -323.1 |
| 25-64 | 501.8 | 550.2 | 298.5 | -251.7 | 556.2 | 609.3 | 342.1 | -267.1 | 52.5 | 40.2 | 104.6 | 64.4 | 608.7 | 649.4 | 446.7 | -202.7 |
| 65+ | 4,564.3 | 4,737.6 | 3,483.3 | -1,254.3 | 4,615.2 | 4,773.0 | 3,673.1 | -1,099.9 | 637.6 | 582.3 | 973.1 | 390.8 | 5,252.8 | 5,355.3 | 4,646.3 | -709.0 |

*Notes: The “FB-USB” columns refer to the difference in ASDR between US-born and foreign-born populations.*

Supplementary Table 3b: Age-Standardized Death Rates per 100,000 for Women by Period, Age, Race, Hispanic Origin, and Nativity (all-cause, all-cause excluding Covid-19, and Covid-19 death rates)

|  | All Cause 2017-2019 | | | | Non-COVID 2020 | | | | COVID-19 2020 | | | | All Cause 2020 | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age | Total | US-Born | Foreign-Born | FB - USB | Total | US-Born | Foreign-Born | FB - USB | Total | US-Born | Foreign-Born | FB - USB | Total | US-Born | Foreign-Born | FB - USB |
| White | | | | | | | | | | | | | | | | |
| 25+ | 1,104.5 | 1,114.8 | 951.4 | -163.4 | 1,125.6 | 1,134.3 | 992.3 | -142.0 | 97.4 | 96.6 | 108.9 | 12.3 | 1,223.0 | 1,230.9 | 1,101.2 | -129.8 |
| 25-64 | 304.8 | 310.4 | 219.0 | -91.4 | 322.8 | 328.7 | 231.3 | -97.4 | 14.7 | 14.6 | 15.7 | 1.1 | 337.5 | 343.3 | 247.0 | -96.3 |
| 65+ | 3,667.3 | 3,692.8 | 3,298.5 | -394.3 | 3,698.2 | 3,716.1 | 3,430.8 | -285.2 | 362.7 | 359.5 | 407.7 | 48.2 | 4,060.9 | 4,075.5 | 3,838.5 | -237.0 |
| Hispanic | | | | | | | | | | | | | | | | |
| 25+ | 750.3 | 844.1 | 677.3 | -166.8 | 802.8 | 888.1 | 735.6 | -152.5 | 193.8 | 164.5 | 216.5 | 52.0 | 996.6 | 1,052.7 | 952.1 | -100.5 |
| 25-64 | 186.2 | 244.0 | 142.2 | -101.8 | 204.1 | 265.6 | 156.2 | -109.4 | 54.5 | 49.1 | 58.3 | 9.2 | 258.6 | 314.7 | 214.6 | -100.1 |
| 65+ | 2,558.0 | 2,767.4 | 2,392.2 | -375.1 | 2,721.4 | 2,883.1 | 2,592.2 | -290.9 | 640.1 | 534.5 | 723.5 | 189.1 | 3,361.5 | 3,417.6 | 3,315.8 | -101.8 |
| Black | | | | | | | | | | | | | | | | |
| 25+ | 1,239.8 | 1,298.8 | 785.4 | -513.4 | 1,339.3 | 1,398.0 | 905.4 | -492.6 | 198.9 | 198.9 | 202.3 | 3.4 | 1,538.2 | 1,596.9 | 1,107.8 | -489.1 |
| 25-64 | 440.6 | 475.0 | 217.8 | -257.2 | 487.7 | 525.6 | 249.1 | -276.5 | 58.3 | 59.9 | 48.6 | -11.4 | 546.0 | 585.5 | 297.7 | -287.8 |
| 65+ | 3,801.1 | 3,938.7 | 2,604.4 | -1,334.4 | 4,068.6 | 4,193.9 | 3,008.8 | -1,185.1 | 649.5 | 644.3 | 695.1 | 50.8 | 4,718.1 | 4,838.2 | 3,703.9 | -1,134.3 |
| Asian | | | | | | | | | | | | | | | | |
| 25+ | 575.9 | 669.8 | 559.3 | -110.5 | 600.4 | 702.1 | 583.1 | -119.0 | 81.8 | 47.0 | 87.8 | 40.8 | 682.2 | 749.1 | 670.9 | -78.2 |
| 25-64 | 122.4 | 183.0 | 112.6 | -70.4 | 129.6 | 199.1 | 118.2 | -80.8 | 15.3 | 13.8 | 15.3 | 1.5 | 144.9 | 212.8 | 133.5 | -79.3 |
| 65+ | 2,029.1 | 2,229.9 | 1,990.9 | -239.0 | 2,109.1 | 2,314.2 | 2,073.1 | -241.2 | 295.0 | 153.4 | 320.1 | 166.7 | 2,404.1 | 2,467.6 | 2,393.2 | -74.5 |
| Total | | | | | | | | | | | | | | | | |
| 25+ | 1,061.0 | 1,122.4 | 746.1 | -376.3 | 1,090.4 | 1,152.6 | 786.5 | -366.1 | 119.1 | 113.5 | 148.6 | 35.1 | 1,209.5 | 1,266.1 | 935.1 | -331.0 |
| 25-64 | 294.3 | 327.5 | 156.6 | -170.9 | 315.1 | 351.8 | 168.8 | -183.0 | 26.8 | 24.6 | 36.5 | 11.9 | 341.9 | 376.4 | 205.3 | -171.1 |
| 65+ | 3,518.0 | 3,669.9 | 2,635.3 | -1,034.6 | 3,575.2 | 3,718.9 | 2,765.9 | -952.9 | 415.0 | 398.5 | 508.0 | 109.5 | 3,990.2 | 4,117.4 | 3,273.9 | -843.5 |

*Notes: The “FB-USB” columns refer to the difference in ASDR between US-born and foreign-born populations.*

Supplementary Table 4: Differences of Age-Standardized Death Rates by Race, Hispanic Origin, Period, Nativity, and Sex (Reference Non-Hispanic White Population)

|  | Difference of ASDRs (Ref. Total White Population) | | | |
| --- | --- | --- | --- | --- |
|  | Males | | Females | |
|  | 2017-2019 | 2020 | 2017-2019 | 2020 |
| Hispanic | | | | |
| Total | -426.424 | -134.340 | -354.517 | -226.681 |
| US-Born | -268.255 | -126.633 | -260.636 | -170.574 |
| Foreign-Born | -548.310 | -139.295 | -427.550 | -271.107 |
| Black | | | | |
| Total | 325.605 | 644.234 | 135.257 | 315.311 |
| US-Born | 417.710 | 724.296 | 194.234 | 374.011 |
| Foreign-Born | -320.877 | 141.502 | -319.424 | -115.379 |
| Asian | | | | |
| Total | -707.986 | -695.214 | -529.074 | -541.253 |
| US-Born | -537.752 | -595.415 | -435.080 | -474.379 |
| Foreign-Born | -741.583 | -715.632 | -545.635 | -552.549 |

Supplementary Table 5a: Age-standardized Death Rates per 100,000 by Cause of Death, Males 25+

|  |  | ASDR 2017-2019 | | | ASDR 2020 | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cause of Death | US-Born | Foreign-Born | Difference | US-Born | Foreign-Born | Difference | Change in Difference |
| **White** | All other causes | 250.4 | 219.0 | -31.4 | 268.7 | 240.3 | -28.5 | 3.0 |
|  | Alzheimer disease and other dementias | 107.7 | 97.0 | -10.7 | 114.7 | 107.2 | -7.5 | 3.2 |
|  | COVID-19 | 0.0 | 0.0 | 0.0 | 143.8 | 202.5 | 58.7 | 58.7 |
|  | Circulatory diseases | 477.9 | 468.6 | -9.3 | 488.9 | 498.6 | 9.8 | 19.1 |
|  | Diabetes | 43.9 | 39.2 | -4.7 | 48.8 | 46.6 | -2.2 | 2.5 |
|  | External Causes | 152.7 | 115.8 | -36.8 | 167.6 | 128.5 | -39.1 | -2.2 |
|  | Malignant Neoplasm | 331.4 | 319.1 | -12.3 | 321.2 | 308.5 | -12.7 | -0.4 |
|  | Respiratory diseases | 155.5 | 120.7 | -34.7 | 145.3 | 115.3 | -30.0 | 4.7 |
|  | Total | 1,519.5 | 1,379.5 | -140.0 | 1,699.0 | 1,647.5 | -51.5 | 88.5 |
| **Hispanic** | All other causes | 244.0 | 164.9 | -79.1 | 258.7 | 192.7 | -66.0 | 13.1 |
|  | Alzheimer disease and other dementias | 84.7 | 65.0 | -19.7 | 92.6 | 75.6 | -17.1 | 2.6 |
|  | COVID-19 | 0.0 | 0.0 | 0.0 | 268.0 | 478.7 | 210.7 | 210.7 |
|  | Circulatory diseases | 386.3 | 315.1 | -71.2 | 406.2 | 361.5 | -44.7 | 26.5 |
|  | Diabetes | 65.2 | 48.2 | -16.9 | 74.2 | 63.6 | -10.6 | 6.4 |
|  | External Causes | 119.0 | 73.9 | -45.1 | 141.5 | 88.4 | -53.0 | -7.9 |
|  | Malignant Neoplasm | 245.7 | 218.4 | -27.3 | 230.0 | 212.2 | -17.8 | 9.5 |
|  | Respiratory diseases | 97.8 | 77.1 | -20.8 | 97.7 | 83.6 | -14.2 | 6.6 |
|  | Total | 1,242.7 | 962.6 | -280.1 | 1,568.8 | 1,556.2 | -12.7 | 267.4 |
| **Black** | All other causes | 339.6 | 192.5 | -147.1 | 368.5 | 228.5 | -140.0 | 7.1 |
|  | Alzheimer disease and other dementias | 109.4 | 70.1 | -39.3 | 122.5 | 81.2 | -41.3 | -2.0 |
|  | COVID-19 | 0.0 | 0.0 | 0.0 | 314.5 | 438.0 | 123.4 | 123.4 |
|  | Circulatory diseases | 660.7 | 443.4 | -217.3 | 726.7 | 556.2 | -170.5 | 46.8 |
|  | Diabetes | 86.3 | 60.8 | -25.5 | 104.8 | 82.7 | -22.0 | 3.4 |
|  | External Causes | 182.3 | 76.7 | -105.6 | 240.8 | 95.3 | -145.5 | -39.9 |
|  | Malignant Neoplasm | 408.9 | 267.3 | -141.6 | 390.9 | 260.7 | -130.2 | 11.4 |
|  | Respiratory diseases | 141.5 | 79.2 | -62.2 | 151.1 | 94.5 | -56.6 | 5.6 |
|  | Total | 1,928.6 | 1,190.1 | -738.6 | 2,419.8 | 1,837.0 | -582.8 | 155.8 |
| **Asian** | All other causes | 141.6 | 116.7 | -24.9 | 157.8 | 128.6 | -29.2 | -4.3 |
|  | Alzheimer disease and other dementias | 66.7 | 44.3 | -22.4 | 73.7 | 50.1 | -23.6 | -1.2 |
|  | COVID-19 | 0.0 | 0.0 | 0.0 | 90.2 | 168.5 | 78.3 | 78.3 |
|  | Circulatory diseases | 349.8 | 259.8 | -90.0 | 354.0 | 284.3 | -69.7 | 20.3 |
|  | Diabetes | 46.5 | 34.6 | -11.9 | 48.4 | 42.8 | -5.6 | 6.4 |
|  | External Causes | 73.4 | 47.2 | -26.3 | 87.0 | 48.0 | -39.0 | -12.8 |
|  | Malignant Neoplasm | 206.7 | 194.5 | -12.1 | 211.5 | 187.1 | -24.4 | -12.3 |
|  | Respiratory diseases | 88.4 | 72.2 | -16.2 | 77.5 | 70.5 | -7.0 | 9.2 |
|  | Total | 973.2 | 769.4 | -203.8 | 1,100.1 | 979.8 | -120.2 | 83.6 |

*Notes: The “Difference” column refers to differences in cause-specific ASDR between Foreign-Born and US-Born populations. The “Change in Difference” column computes the difference between the Foreign-Born to US-Born difference in 2020 and 2017-2019. A negative value in either of the “Difference” columns indicates that mortality is higher among the Foreign Born. Positive values in the “Change in Difference” column indicates that the mortality advantage of the Foreign-Born population decreased in 2020 relative to 2017-2019.*

Supplementary Table 5b: Age-standardized Crude Death Rates per 100,000 by Cause of Death, Females 25+

|  |  | ASDR 2017-2019 | | | ASDR 2020 | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cause of Death | US-Born | Foreign-Born | Difference | US-Born | Foreign-Born | Difference | Change in Difference |
| **White** | All other causes | 186.7 | 145.1 | -41.5 | 198.4 | 154.8 | -43.6 | -2.0 |
|  | Alzheimer disease and other dementias | 141.6 | 125.7 | -16.0 | 157.5 | 141.9 | -15.6 | 0.4 |
|  | COVID-19 | 0.0 | 0.0 | 0.0 | 96.7 | 109.0 | 12.3 | 12.3 |
|  | Circulatory diseases | 325.3 | 299.9 | -25.5 | 328.2 | 319.0 | -9.1 | 16.4 |
|  | Diabetes | 25.8 | 21.7 | -4.1 | 28.8 | 25.2 | -3.6 | 0.5 |
|  | External Causes | 69.8 | 48.3 | -21.6 | 74.5 | 50.3 | -24.2 | -2.7 |
|  | Malignant Neoplasm | 240.1 | 227.0 | -13.1 | 232.8 | 224.9 | -7.9 | 5.2 |
|  | Respiratory diseases | 126.5 | 84.7 | -41.7 | 115.2 | 77.1 | -38.1 | 3.6 |
|  | Total | 1,115.8 | 952.3 | -163.5 | 1,232.1 | 1,102.3 | -129.8 | 33.7 |
| **Hispanic** | All other causes | 163.0 | 111.2 | -51.7 | 174.4 | 122.4 | -52.0 | -0.3 |
|  | Alzheimer disease and other dementias | 105.8 | 79.4 | -26.4 | 121.6 | 95.8 | -25.8 | 0.6 |
|  | COVID-19 | 0.0 | 0.0 | 0.0 | 164.7 | 216.7 | 52.1 | 52.1 |
|  | Circulatory diseases | 252.0 | 218.2 | -33.8 | 263.5 | 239.8 | -23.6 | 10.1 |
|  | Diabetes | 43.7 | 32.7 | -11.0 | 50.8 | 41.2 | -9.6 | 1.4 |
|  | External Causes | 41.9 | 22.8 | -19.1 | 48.1 | 24.1 | -24.1 | -5.0 |
|  | Malignant Neoplasm | 168.1 | 160.9 | -7.2 | 162.0 | 159.6 | -2.4 | 4.8 |
|  | Respiratory diseases | 70.5 | 52.7 | -17.8 | 68.6 | 53.4 | -15.2 | 2.6 |
|  | Total | 844.9 | 678.0 | -166.9 | 1,053.6 | 953.0 | -100.5 | 66.4 |
| **Black** | All other causes | 244.5 | 120.7 | -123.8 | 268.7 | 141.7 | -127.0 | -3.2 |
|  | Alzheimer disease and other dementias | 125.2 | 72.0 | -53.2 | 145.9 | 85.2 | -60.8 | -7.5 |
|  | COVID-19 | 0.0 | 0.0 | 0.0 | 199.1 | 202.5 | 3.4 | 3.4 |
|  | Circulatory diseases | 440.3 | 290.7 | -149.6 | 476.5 | 344.5 | -132.0 | 17.5 |
|  | Diabetes | 60.3 | 39.9 | -20.3 | 71.2 | 55.5 | -15.7 | 4.6 |
|  | External Causes | 55.5 | 22.0 | -33.5 | 71.0 | 27.6 | -43.4 | -9.9 |
|  | Malignant Neoplasm | 277.5 | 194.7 | -82.8 | 265.1 | 199.8 | -65.3 | 17.5 |
|  | Respiratory diseases | 96.5 | 46.2 | -50.4 | 100.7 | 52.1 | -48.6 | 1.8 |
|  | Total | 1,299.8 | 786.1 | -513.7 | 1,598.2 | 1,108.8 | -489.4 | 24.3 |
| **Asian** | All other causes | 100.4 | 82.2 | -18.2 | 110.2 | 87.9 | -22.3 | -4.1 |
|  | Alzheimer disease and other dementias | 84.5 | 59.2 | -25.2 | 100.7 | 69.6 | -31.1 | -5.9 |
|  | COVID-19 | 0.0 | 0.0 | 0.0 | 47.0 | 87.9 | 40.9 | 40.9 |
|  | Circulatory diseases | 212.4 | 184.7 | -27.8 | 224.8 | 196.6 | -28.2 | -0.4 |
|  | Diabetes | 26.9 | 24.7 | -2.1 | 31.9 | 27.2 | -4.7 | -2.6 |
|  | External Causes | 31.0 | 22.2 | -8.8 | 32.8 | 21.6 | -11.2 | -2.4 |
|  | Malignant Neoplasm | 159.5 | 143.8 | -15.7 | 155.7 | 142.7 | -12.9 | 2.8 |
|  | Respiratory diseases | 55.7 | 43.0 | -12.7 | 46.7 | 38.1 | -8.6 | 4.2 |
|  | Total | 670.5 | 559.9 | -110.6 | 749.8 | 671.6 | -78.2 | 32.4 |

*Notes: The “Difference” column refers to differences in cause-specific ASDR between Foreign-Born and US-Born populations. The “Change in Difference” column computes the difference between the Foreign-Born to US-Born difference in 2020 and 2017-2019. A negative value in either of the “Difference” columns indicates that mortality is higher among the Foreign Born. Positive values in the “Change in Difference” column indicates that the mortality advantage of the Foreign-Born population decreased in 2020 relative to 2017-2019.*