Intentions to Receive COVID-19 Vaccines in the United States: Sociodemographic

Factors and Personal Experiences with COVID-19

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**Supplemental Table 1: Differences between demographic factors and levels of trust in health authority**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **A lot****(n=478)** | **A little (n=355)** | **Not at all (n=93)** | **p-value** |
| **Age** | 55.2 ± 13.1 | 53.8 ± 12.3 | 49.7 ± 13.2 | 0.001 |
| **Age Category** |  |  |  | 0.001 |
| **18-29** | 14 (2.9%) | 6 (1.7%) | 7 (7.5%) |  |
| **30-39** | 64 (13.4%) | 51 (14.4%) | 17 (18.3%) |  |
| **40-49** | 73 (15.3%) | 59 (16.6%) | 19 (20.4%) |  |
| **50-59** | 111 (23.2%) | 114 (32.1%) | 27 (29%) |  |
| **60-69** | 151 (31.6%) | 93 (26.2%) | 17 (18.3%) |  |
| **70+** | 65 (13.6%) | 32 (9%) | 6 (6.5%) |  |
| **Sex** |  |  |  | 0.163 |
| Male | 223 (46.7%) | 153 (43.1%) | 34 (36.6%) |  |
| Female | 254 (53.1%) | 202 (56.9%) | 59 (63.4%) |  |
| **BMI (n=872)** | 26.9 ± 6.3 | 27.7 ± 6.4 | 27 ± 6.9 | 0.226 |
| **BMI Category** |  |  |  | 0.195 |
| underweight | 16 (3.5%) | 14 (4.2%) | 3 (3.4%) |  |
| normal | 182 (40%) | 105 (31.8%) | 35 (40.2%) |  |
| overweight | 153 (33.6%) | 110 (33.3%) | 28 (32.2%) |  |
| obese | 104 (22.9%) | 101 (30.6%) | 21 (24.1%) |  |
| **Race/Ethnicity** |  |  |  | 0.126 |
| White | 366 (76.6%) | 274 (77.2%) | 71 (76.3%) |  |
| Black | 22 (4.6%) | 15 (4.2%) | 11 (11.8%) |  |
| Hispanic | 31 (6.5%) | 26 (7.3%) | 4 (4.3%) |  |
| Asian | 45 (9.4%) | 28 (7.9%) | 4 (4.3%) |  |
| Other | 14 (2.9%) | 12 (3.4%) | 3 (3.2%) |  |
| **Marital Status** |  |  |  | 0.137 |
| Single | 119 (24.9%) | 73 (20.6%) | 28 (30.1%) |  |
| Married/Common Law | 302 (63.2%) | 239 (67.3%) | 51 (54.8%) |  |
| Divorced/Separated | 52 (10.9%) | 43 (12.1%) | 13 (14%) |  |
| Unknown/Prefer not to answer | 5 (1%) | 0 (0%) | 1 (1.1%) |  |
| **Education** |  |  |  | 0.006 |
| DNF High School | 0 (0%) | 3 (0.8%) | 0 (0%) |  |
| HS/GED | 40 (8.4%) | 35 (9.9%) | 15 (16.1%) |  |
| Some College/Vocational school | 117 (24.5%) | 104 (29.3%) | 29 (31.2%) |  |
| Bachelors | 171 (35.8%) | 125 (35.2%) | 34 (36.6%) |  |
| Advanced Degree | 149 (31.2%) | 88 (24.8%) | 14 (15.1%) |  |
|  Other/Unknown | 1 (0.2%) | 0 (0%) | 1 (1.1%) |  |
| **Job Category** |  |  |  | 0.018 |
| General Public | 304 (63.6%) | 227 (63.9%) | 59 (63.4%) |  |
| Health Care | 147 (30.8%) | 99 (27.9%) | 20 (21.5%) |  |
| Other Essential Workers | 27 (5.6%) | 29 (8.2%) | 14 (15.1%) |  |
| **Work Status** |  |  |  | 0.780 |
| Working from Normal Location | 264 (55.2%) | 210 (59.2%) | 57 (61.3%) |  |
| Working from home | 110 (23%) | 82 (23.1%) | 20 (21.5%) |  |
| Not working due to COVID | 18 (3.8%) | 12 (3.4%) | 4 (4.3%) |  |
| Unemployed due to COVID | 14 (2.9%) | 6 (1.7%) | 3 (3.2%) |  |
| Not working - Other reason | 72 (15.1%) | 44 (12.4%) | 9 (9.7%) |  |
| **Income**  |  |  |  | 0.135 |
| <$30,000 | 53 (11.6%) | 34 (9.9%) | 14 (15.6%) |  |
| $30,000 to <$60,000 | 107 (23.5%) | 84 (24.6%) | 29 (32.2%) |  |
| $60,000 to <$100,000 | 126 (27.6%) | 108 (31.6%) | 20 (22.2%) |  |
| $100,000 or more | 170 (37.3%) | 116 (33.9%) | 27 (30%) |  |
| **Current Psychological diagnosis** | 36 (7.5%) | 31 (8.7%) | 7 (7.5%) | 0.815 |
| **Presence of a comorbidity** | 187 (39.1%) | 140 (39.4%) | 30 (32.3%) | 0.419 |
| **Rural-Urban Commuting Area Classification** |  |  |  | 0.809 |
| Metropolitan  | 431 (90.2%) | 313 (88.2%) | 81 (87.1%) |  |
| Micropolitan  | 30 (6.3%) | 28 (7.9%) | 7 (7.5%) |  |
| Small town/Rural | 17 (3.6%) | 14 (3.9%) | 5 (5.4%) |  |
| **Typically receives Flu Vaccine** | 365 (76.4%) | 235 (66.2%) | 37 (39.8%) | <0.001 |

**Supplemental Table 2: Differences between COVID experience and levels of trust in health authority**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **A lot (n=478)** | **A little (n=355)** | **Not at all (n=93)** | **p-value** |
| **Cumulative COVID case count per 100k County residents** | 5923(4842, 7607) | 5780(4581, 7186) | 6451(5129, 7795) | 0.024 |
| **Cumulative COVID death count per 100k County residents** | 92 (56, 135) | 89 (58, 132) | 97 (73, 137) | 0.373 |
| **COVID Fear** | 17.5 ± 6.2 | 17.0 ± 6.9 | 15.0 ± 7.7 | 0.006 |
| **COVID Impact ranked as moderate/severe** |  |  |  |  |
| Routines | 302 (63.2%) | 201 (56.6%) | 48 (51.6%) | 0.043 |
| Family Income/Employment | 69 (14.4%) | 69 (19.4%) | 22 (23.7%) | 0.039 |
| Food Access | 18 (3.8%) | 28 (7.9%) | 10 (10.8%) | 0.006 |
| Medical health care access | 75 (15.7%) | 50 (14.1%) | 18 (19.4%) | 0.446 |
| Mental health treatment | 18 (3.8%) | 19 (5.4%) | 6 (6.5%) | 0.383 |
| Access to extended family and non-family social supports | 195 (40.8%) | 119 (33.5%) | 17 (18.3%) | <0.001 |
| Experiences of stress related to coronavirus pandemic | 137 (28.7%) | 88 (24.8%) | 24 (25.8%) | 0.446 |
| Stress and discord in the family | 48 (10%) | 47 (13.2%) | 14 (15.1%) | 0.215 |
| **COVID-19 testing** |  |  |  | 0.537 |
| Screening  | 32 (6.7%) | 24 (6.8%) | 2 (2.2%) |  |
| Test  | 124 (25.9%) | 83 (23.4%) | 21 (22.6%) |  |
| Both screening and test  | 75 (15.7%) | 56 (15.8%) | 13 (14.0%) |  |
| None | 247 (51.7%) | 192 (54.1%) | 57 (61.3%) |  |
| **Tested positive**  | 19 (4%) | 17 (4.8%) | 7 (7.5%) | 0.325 |
| **Know someone who tested positive** | 374 (78.2%) | 258 (72.7%) | 45 (48.4%) | <0.001 |
| **Television Consumption last 7 days** |  |  |  | 0.085 |
| Less than an hour | 75 (15.7%) | 57 (16.1%) | 30 (32.3%) |  |
| 1 to 2 hours | 105 (22%) | 82 (23.1%) | 12 (12.9%) |  |
| 3 to 4 hours | 89 (18.6%) | 76 (21.4%) | 16 (17.2%) |  |
| 4 to 5 hours | 55 (11.5%) | 37 (10.4%) | 9 (9.7%) |  |
| More than 5 hours | 154 (32.2%) | 102 (28.7%) | 25 (26.9%) |  |
| **Radio Consumption last 7 days** |  |  |  | 0.062 |
| Less than an hour | 289 (60.8%) | 191 (54.4%) | 52 (56.5%) |  |
| 1 to 2 hours | 113 (23.8%) | 83 (23.6%) | 17 (18.5%) |  |
| 3 to 4 hours | 28 (5.9%) | 30 (8.5%) | 6 (6.5%) |  |
| 4 to 5 hours | 17 (3.6%) | 16 (4.6%) | 6 (6.5%) |  |
| More than 5 hours | 28 (5.9%) | 31 (8.8%) | 11 (12%) |  |
| **Newspapers Consumption last 7 days** |  |  |  | 0.437 |
| Less than an hour | 342 (73.4%) | 266 (76.4%) | 70 (78.7%) |  |
| 1 to 2 hours | 87 (18.7%) | 57 (16.4%) | 13 (14.6%) |  |
| 3 to 4 hours | 20 (4.3%) | 18 (5.2%) | 4 (4.5%) |  |
| 4 to 5 hours | 11 (2.4%) | 4 (1.1%) | 2 (2.2%) |  |
| More than 5 hours | 6 (1.3%) | 3 (0.9%) | 0 (0%) |  |
| **Internet** |  |  |  | 0.396 |
| Less than an hour | 49 (10.3%) | 49 (14%) | 16 (17.2%) |  |
| 1 to 2 hours | 132 (27.7%) | 99 (28.2%) | 25 (26.9%) |  |
| 3 to 4 hours | 100 (21%) | 63 (17.9%) | 13 (14%) |  |
| 4 to 5 hours | 58 (12.2%) | 48 (13.7%) | 12 (12.9%) |  |
| More than 5 hours | 138 (28.9%) | 92 (26.2%) | 27 (29%) |  |
| **Social Media** |  |  |  | 0.239 |
| Less than an hour | 254 (54.3%) | 173 (49.9%) | 46 (50%) |  |
| 1 to 2 hours | 116 (24.8%) | 84 (24.2%) | 19 (20.7%) |  |
| 3 to 4 hours | 40 (8.5%) | 43 (12.4%) | 11 (12%) |  |
| 4 to 5 hours | 22 (4.7%) | 21 (6.1%) | 3 (3.3%) |  |
| More than 5 hours | 36 (7.7%) | 26 (7.5%) | 13 (14.1%) |  |
| **How fearful has media coverage made you** |  |  |  | <0.001 |
| Not fearful at all  | 97 (20.5%) | 102 (29.1%) | 44 (48.4%) |  |
| A little fearful  | 179 (37.8%) | 95 (27.1%) | 21 (23.1%) |  |
| Somewhat fearful  | 127 (26.8%) | 103 (29.3%) | 17 (18.7%) |  |
| Really fearful  | 46 (9.7%) | 24 (6.8%) | 3 (3.3%) |  |
| Extremely fearful  | 25 (5.3%) | 27 (7.7%) | 6 (6.6%) |  |

**Supplemental Table 3: Differences between demographic factors and levels of trust in personal physician or health care provider**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **A lot (n=592)** | **A little (n=280)** | **Not at all (n=51)** | **p-value** |
| **Age** | 55.8 ± 12.7 | 51.4 ± 12.4 | 49.5 ± 13.2 | <0.001 |
| **Age Category** |  |  |  | <0.001 |
| 18-29 | 13 (2.2%) | 8 (2.9%) | 6 (11.8%) |  |
| 30-39 | 68 (11.5%) | 53 (18.9%) | 7 (13.7%) |  |
| 40-49 | 88 (14.9%) | 56 (20%) | 8 (15.7%) |  |
| 50-59 | 161 (27.2%) | 72 (25.7%) | 19 (37.3%) |  |
| 60-69 | 182 (30.7%) | 71 (25.4%) | 8 (15.7%) |  |
| 70+ | 80 (13.5%) | 20 (7.1%) | 3 (5.9%) |  |
| **Sex** |  |  |  | 0.284 |
| Male | 265 (44.8%) | 124 (44.3%) | 17 (33.3%) |  |
| Female | 327 (55.2%) | 155 (55.4%) | 34 (66.7%) |  |
| **BMI**  | 27.3 ± 6.3 | 27.2 ± 6.6 | 26.5 ± 7.1 | 0.717 |
| **BMI Category** |  |  |  | 0.411 |
| underweight | 17 (3%) | 13 (4.9%) | 3 (6.7%) |  |
| normal | 207 (36.8%) | 92 (35%) | 20 (44.4%) |  |
| overweight | 197 (35.1%) | 83 (31.6%) | 12 (26.7%) |  |
| obese | 141 (25.1%) | 75 (28.5%) | 10 (22.2%) |  |
| **Race/Ethnicity** |  |  |  | 0.004 |
| White | 460 (77.7%) | 216 (77.1%) | 34 (66.7%) |  |
| Black | 27 (4.6%) | 11 (3.9%) | 9 (17.6%) |  |
| Hispanic | 36 (6.1%) | 21 (7.5%) | 4 (7.8%) |  |
| Asian | 53 (9%) | 22 (7.9%) | 1 (2%) |  |
| Other | 16 (2.7%) | 10 (3.6%) | 3 (5.9%) |  |
| **Marital Status** |  |  |  | 0.034 |
| Single | 127 (21.5%) | 73 (26.1%) | 18 (35.3%) |  |
| Married/Common Law | 397 (67.1%) | 168 (60%) | 25 (49%) |  |
| Divorced/Separated | 63 (10.6%) | 39 (13.9%) | 7 (13.7%) |  |
| Unknown/Prefer not to answer | 5 (0.8%) | 0 (0%) | 1 (2%) |  |
| **Education** |  |  |  | 0.070 |
| DNF High School | 1 (0.2%) | 1 (0.4%) | 1 (2%) |  |
| HS/GED | 58 (9.8%) | 27 (9.6%) | 7 (13.7%) |  |
| Some College/Vo | 150 (25.3%) | 80 (28.6%) | 20 (39.2%) |  |
| Bachelors | 204 (34.5%) | 107 (38.2%) | 15 (29.4%) |  |
| Advanced Degree | 177 (29.9%) | 65 (23.2%) | 8 (15.7%) |  |
|  Other/Unknown | 2 (0.3%) | 0 (0%) | 0 (0%) |  |
| **Job Category** |  |  |  | 0.006 |
| General Public | 374 (63.2%) | 178 (63.6%) | 35 (68.6%) |  |
| Health Care | 182 (30.7%) | 77 (27.5%) | 7 (13.7%) |  |
| Other Essential Workers | 36 (6.1%) | 25 (8.9%) | 9 (17.6%) |  |
| **Work Status** |  |  |  | 0.549 |
| Working from Normal Location | 334 (56.4%) | 168 (60%) | 31 (60.8%) |  |
| Working from home | 131 (22.1%) | 66 (23.6%) | 10 (19.6%) |  |
| Not working due to COVID | 23 (3.9%) | 8 (2.9%) | 3 (5.9%) |  |
| Unemployed due to COVID | 18 (3%) | 3 (1.1%) | 2 (3.9%) |  |
| Not working - Other reason | 86 (14.5%) | 34 (12.1%) | 5 (9.8%) |  |
| **Income** |  |  |  | 0.063 |
| <$30,000 | 56 (9.9%) | 33 (12.2%) | 12 (24.5%) |  |
| $30,000 to <$60,000 | 141 (25%) | 65 (24%) | 13 (26.5%) |  |
| $60,000 to <$100,000 | 151 (26.8%) | 90 (33.2%) | 11 (22.4%) |  |
| $100,000 or more | 216 (38.3%) | 83 (30.6%) | 13 (26.5%) |  |
| **Current Psychological diagnosis** | 47 (7.9%) | 23 (8.2%) | 4 (7.8%) | 0.983 |
| **Presence of a comorbidity** | 236 (39.9%) | 108 (38.6%) | 14 (27.5%) | 0.217 |
| **Rural-Urban Commuting Area Classification** |  |  |  | 0.785 |
| Metropolitan  | 524 (88.5%) | 251 (89.6%) | 46 (90.2%) |  |
| Micropolitan  | 44 (7.4%) | 20 (7.1%) | 2 (3.9%) |  |
| Small town/Rural | 24 (4.1%) | 9 (3.2%) | 3 (5.9%) |  |
| **Typically receives Flu Vaccine** | 453 (76.5%) | 169 (60.4%) | 15 (29.4%) | <0.001 |

**Supplemental Table 4: Differences between COVID experience and levels of trust in personal physician or health care provider**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **A lot (n=478)** | **A little (n=355)** | **Not at all (n=93)** | **p-value** |
| **Cumulative COVID case count per 100k County residents** | 5991(4842, 7617) | 5706(4614, 7140) | 5966.2(4968, 7797) | 0.063 |
| **Cumulative COVID death count per 100k County residents** | 91 (58, 134) | 91 (57, 132) | 87 (59, 115) |  |
| **COVID Fear** | 17.3 ± 6.4 | 16.7 ± 6.9 | 16.2 ± 7.9 | 0.279 |
| **COVID Impact ranked as moderate/severe** |  |  |  |  |
| Routines | 379 (64%) | 144 (51.4%) | 25 (49%) | 0.001 |
| Family Income/Employment | 101 (17.1%) | 44 (15.7%) | 14 (27.5%) | 0.123 |
| Food Access | 28 (4.7%) | 22 (7.9%) | 6 (11.8%) | 0.042 |
| Medical health care access | 91 (15.4%) | 38 (13.6%) | 14 (27.5%) | 0.042 |
| Mental health treatment | 23 (3.9%) | 14 (5%) | 6 (11.8%) | 0.035 |
| Access to extended family and non-family social supports | 238 (40.2%) | 82 (29.3%) | 10 (19.6%) | <0.001 |
| Experiences of stress related to coronavirus pandemic | 163 (27.5%) | 71 (25.4%) | 14 (27.5%) | 0.792 |
| Stress and discord in the family | 61 (10.3%) | 39 (13.9%) | 10 (19.6%) | 0.067 |
| **COVID-19 testing** |  |  |  | 0.022 |
| Screening  | 38 (6.4%) | 19 (6.8%) | 2 (3.9%) |  |
| Test  | 158 (26.7%) | 62 (22.1%) | 8 (15.7%) |  |
| Both screening and test  | 105 (17.7%) | 33 (11.8%) | 6 (11.8%) |  |
| None | 291 (49.2%) | 166 (59.3%) | 35 (68.6%) |  |
| **Tested positive**  | 31 (5.2%) | 11 (3.9%) | 1 (2%) | 0.446 |
| **Know someone who tested positive** | 467 (78.9%) | 191 (68.2%) | 21 (41.2%) | <0.001 |
| **Television** |  |  |  | 0.095 |
| Less than an hour | 90 (15.2%) | 54 (19.3%) | 19 (37.3%) |  |
| 1 to 2 hours | 138 (23.3%) | 52 (18.6%) | 6 (11.8%) |  |
| 3 to 4 hours | 113 (19.1%) | 60 (21.4%) | 8 (15.7%) |  |
| 4 to 5 hours | 71 (12%) | 26 (9.3%) | 4 (7.8%) |  |
| More than 5 hours | 180 (30.4%) | 87 (31.1%) | 13 (25.5%) |  |
| **Radio** |  |  |  | 0.055 |
| Less than an hour | 354 (60.4%) | 151 (54.3%) | 27 (54%) |  |
| 1 to 2 hours | 140 (23.9%) | 61 (21.9%) | 12 (24%) |  |
| 3 to 4 hours | 37 (6.3%) | 21 (7.6%) | 4 (8%) |  |
| 4 to 5 hours | 19 (3.2%) | 17 (6.1%) | 2 (4%) |  |
| More than 5 hours | 36 (6.1%) | 28 (10.1%) | 5 (10%) |  |
| **Newspapers** |  |  |  | 0.637 |
| Less than an hour | 428 (74.4%) | 213 (77.2%) | 35 (71.4%) |  |
| 1 to 2 hours | 112 (19.5%) | 38 (13.8%) | 8 (16.3%) |  |
| 3 to 4 hours | 17 (3%) | 19 (6.9%) | 5 (10.2%) |  |
| 4 to 5 hours | 12 (2.1%) | 3 (1.1%) | 1 (2%) |  |
| More than 5 hours | 6 (1%) | 3 (1.1%) | 0 (0%) |  |
| **Internet**  |  |  |  | 0.596 |
| Less than an hour | 67 (11.4%) | 39 (14.1%) | 9 (17.6%) |  |
| 1 to 2 hours | 170 (28.8%) | 71 (25.6%) | 14 (27.5%) |  |
| 3 to 4 hours | 114 (19.3%) | 55 (19.9%) | 9 (17.6%) |  |
| 4 to 5 hours | 76 (12.9%) | 34 (12.3%) | 8 (15.7%) |  |
| More than 5 hours | 163 (27.6%) | 78 (28.2%) | 11 (21.6%) |  |
| **Social Media** |  |  |  | 0.192 |
| Less than an hour | 313 (54%) | 137 (50%) | 23 (45.1%) |  |
| 1 to 2 hours | 144 (24.8%) | 62 (22.6%) | 13 (25.5%) |  |
| 3 to 4 hours | 50 (8.6%) | 32 (11.7%) | 10 (19.6%) |  |
| 4 to 5 hours | 30 (5.2%) | 15 (5.5%) | 1 (2%) |  |
| More than 5 hours | 43 (7.4%) | 28 (10.2%) | 4 (7.8%) |  |
| **How fearful has media coverage made you** |  |  |  | 0.081 |
| Not fearful at all  | 140 (24%) | 79 (28.3%) | 23 (46%) |  |
| A little fearful  | 201 (34.4%) | 82 (29.4%) | 10 (20%) |  |
| Somewhat fearful  | 157 (26.9%) | 79 (28.3%) | 11 (22%) |  |
| Really fearful  | 52 (8.9%) | 18 (6.5%) | 3 (6%) |  |
| Extremely fearful  | 34 (5.8%) | 21 (7.5%) | 3 (6%) |  |