

**Supplemental Table 1. Comparison of the SummerStyles 2020 Sample to the March 2019 Census Estimates on Selected Demographic Variables**

|               | CPS <sup>a</sup> | Summer | Summer |
|---------------|------------------|--------|--------|
|               | 2019             | (unwt) | (wt)   |
| <b>Gender</b> |                  |        |        |
| Male          | 48.42%           | 50.40% | 48.40% |
| Female        | 51.58%           | 49.60% | 51.60% |
|               |                  |        |        |
| <b>Age</b>    |                  |        |        |
| 18-24         | 11.61%           | 2.90%  | 10.90% |
| 25-34         | 18.04%           | 12.70% | 18.20% |
| 35-44         | 16.38%           | 17.90% | 16.50% |
| 45-54         | 16.24%           | 17.80% | 16.40% |
| 55-64         | 16.67%           | 22.70% | 16.80% |
| 65+           | 21.06%           | 26.10% | 21.20% |
|               |                  |        |        |
| <b>Region</b> |                  |        |        |
| Northeast     | 17.46%           | 18.30% | 17.60% |
| Midwest       | 20.78%           | 22.30% | 20.70% |
| South         | 37.94%           | 35.60% | 37.90% |
| West          | 23.82%           | 23.90% | 23.80% |

|                             |        |        |        |
|-----------------------------|--------|--------|--------|
|                             |        |        |        |
| <b>Household income</b>     |        |        |        |
| Less than \$25K             | 13.56% | 10.00% | 13.30% |
| \$25-39K                    | 11.07% | 10.10% | 11.00% |
| \$40-59K                    | 14.45% | 13.90% | 14.50% |
| \$60K or more               | 60.93% | 66.00% | 61.10% |
|                             |        |        |        |
| <b>Race / Ethnicity</b>     |        |        |        |
| White, Non-Hispanic         | 63.14% | 73.40% | 63.40% |
| Black, Non-Hispanic         | 11.82% | 8.10%  | 11.70% |
| Other, Non-Hispanic         | 7.20%  | 5.10%  | 7.20%  |
| Hispanic                    | 16.44% | 10.30% | 16.30% |
| 2+ Races, Non-Hispanic      | 1.40%  | 3.10%  | 1.40%  |
|                             |        |        |        |
| <b>Education</b>            |        |        |        |
| Less than high school       | 10.60% | 5.60%  | 10.50% |
| High school                 | 28.31% | 26.00% | 28.30% |
| Some college                | 27.77% | 27.90% | 27.70% |
| Bachelor's degree or higher | 33.32% | 40.50% | 33.60% |
|                             |        |        |        |
| <b>MSA Status</b>           |        |        |        |
| Non-Metro                   | 13.34% | 13.40% | 13.30% |
| Metro                       | 86.66% | 86.60% | 86.70% |

| <b>Household size</b> |        |        |        |
|-----------------------|--------|--------|--------|
| 1                     | 14.57% | 17.70% | 14.70% |
| 2                     | 34.78% | 37.40% | 34.90% |
| 3                     | 18.77% | 16.80% | 18.80% |
| 4                     | 16.92% | 15.90% | 16.90% |
| 5+                    | 14.97% | 12.20% | 14.80% |

<sup>a</sup>The data are taken from the 2019 Current Population Survey, which interviews a sample of the population annually. The sample consists of 67 297 households and 132 809 persons. Weights are then provided to project the data to the US total 128 569 540 million households and 250 438 395 million adults.

## Supplemental Table 2. Bivariate Associations Between Factors and Support for a Good Age for Kids to Start Playing Tackle Football- 2020

### SummerStyles Survey

| <i>When is a good age for kids to start playing tackle football?</i> |                                   |  |                                  |             |                                       |                                  |                 |           |                                  |                 |          |                |                                 |
|--|-----------------------------------|--|----------------------------------|-------------|---------------------------------------|----------------------------------|-----------------|-----------|----------------------------------|-----------------|----------|----------------|---------------------------------|
|  |                                   | Elementary or Middle school age<br>(5 to 13 years old) |                                  |             | High school age and above (≥14 years) |                                  |                 | Never     |                                  |                 |          |                |                                 |
| <b>Factors</b>   |                                   | Frequency  | Weighted<br>Percent <sup>3</sup> | 95% CI      | Frequency                             | Weighted<br>Percent <sup>3</sup> | 95% CI          | Frequency | Weighted<br>Percent <sup>3</sup> | 95% CI          | $\chi^2$ | <i>P</i> value | Effect<br>Size<br>(Cramer<br>V) |
| Sex  | Male                              | 1005   | 49.6                             | 46.87-52.30 | 701                                   | 35.4                             | 32.77-<br>38.09 | 329       | 15.0                             | 13.16-<br>16.81 | 38.9     | <0.001         | 0.1                             |
|  | Female                            | 804  | 43.1                             | 40.41-45.70 | 686                                   | 32.6                             | 30.15-35        | 514       | 24.4                             | 22.15-26.6      |          |                |                                 |
| Education  | HS grad or<br>less                | 634  | 51.0                             | 47.67-54.39 | 429                                   | 33.1                             | 29.95-<br>36.31 | 212       | 15.8                             | 13.4-18.27      | 43.2     | <0.001         | 0.1                             |
|  | Some college                      | 530  | 47.6                             | 43.97-51.25 | 382                                   | 34.6                             | 31.04-<br>38.07 | 214       | 17.8                             | 15.2-20.47      |          |                |                                 |
|  | Bachelor's<br>degree or<br>higher | 645  | 39.5                             | 36.78-42.25 | 576                                   | 34.4                             | 31.79-<br>37.02 | 417       | 26.1                             | 23.63-<br>28.53 |          |                |                                 |
| Do you<br>currently have<br>any children<br>under the age of<br>18?  | Yes                               | 664  | 52.2                             | 48.81-55.54 | 361                                   | 28.3                             | 25.21-<br>31.38 | 252       | 19.5                             | 16.91-<br>22.15 | 18.8     | <0.001         | 0.1                             |
|  | No                                | 1145   | 44.0                             | 41.76-46.31 | 1022                                  | 36.0                             | 33.84-<br>38.21 | 589       | 19.9                             | 18.19-<br>21.69 |          |                |                                 |
| I am a fan of<br>American<br>football <sup>1</sup>                   | Agree                             | 1269   | 53.8                             | 51.39-56.31 | 850                                   | 35.4                             | 33.02-<br>37.77 | 257       | 10.8                             | 9.24-12.27      | 190.6    | <0.001         | 0.3                             |
|  | Disagree                          | 537  | 36.0                             | 33.13-38.94 | 536                                   | 32.1                             | 29.34-<br>34.85 | 586       | 31.9                             | 29.22-<br>34.51 |          |                |                                 |
| How many<br>years did you  | 0 Years                           | 1355   | 42.5                             | 40.46-44.61 | 1201                                  | 35.5                             | 33.52-<br>37.52 | 782       | 21.9                             | 20.28-<br>23.61 | 153.0    | <0.001         | 0.1                             |

|  |                    |      |      |             |      |      |             |     |      |             |       |        |     |
|--|--------------------|------|------|-------------|------|------|-------------|-----|------|-------------|-------|--------|-----|
| play tackle football on an organized team (outside PE/gym class)? <sup>2</sup>   | 1-4 Years          | 283  | 61.5 | 56.07-66.89 | 149  | 30.8 | 25.57-36.01 | 41  | 7.7  | 5.21-10.25  |       |        |     |
|  | ≥ 5 Years          | 155  | 82.7 | 76.68-88.73 | 30   | 15.6 | 9.7-21.41   | 4   | 1.7  | 0.02-3.46   |       |        |     |
| How concerned are you about the safety of kids playing tackle football?  | Very concerned     | 346  | 24.3 | 21.65-27.01 | 533  | 35.0 | 32.11-37.99 | 657 | 40.6 | 37.66-43.58 | 523.9 | <0.001 | 0.3 |
|  | Somewhat concerned | 1105 | 56.6 | 53.86-59.27 | 727  | 36.2 | 33.57-38.81 | 144 | 7.2  | 5.85-8.63   |       |        |     |
|  | Not concerned      | 355  | 68.3 | 63.49-73.12 | 127  | 23.1 | 18.79-27.43 | 40  | 8.6  | 5.62-11.55  |       |        |     |
| Which of the following are the top three benefits of kids playing tackle football? There are no benefits   | No                 | 1755 | 53.1 | 51.07-55.21 | 1232 | 35.6 | 33.58-37.55 | 383 | 11.3 | 9.99-12.6   | 640.1 | <0.001 | 0.5 |
|  | Yes                | 49   | 7.9  | 5.11-10.68  | 151  | 25.2 | 20.89-29.43 | 453 | 66.9 | 62.36-71.54 |       |        |     |
| Which of the following are the top three reasons why kids should not play tackle football? Kids can get concussions or other brain injuries <sup>4</sup> | No                 | 426  | 66.6 | 61.9-71.22  | 147  | 23.5 | 19.26-27.71 | 53  | 10.0 | 6.94-12.98  | 80.1  | <0.001 | 0.2 |
|  | Yes                | 1374 | 42.1 | 40.03-44.13 | 1236 | 36.1 | 34.11-38.08 | 787 | 21.8 | 20.18-23.47 |       |        |     |

<sup>1</sup> Answer choices were combined to create a dichotomized variable.

<sup>2</sup> The questions “Do you or did you play tackle football on an organized team (outside PE/gym class)?” and if yes, “How many years did you play tackle football on an organized team (outside PE/gym class)?” were combined to create a variable with 3 levels: 0 years, 1-4 years, and ≥ 5 years.

<sup>3</sup> Data were weighted to be nationally representative using Current Population Survey distributions based on sex, age, race and ethnicity, education, household income, household size, Census region, and metropolitan status.

<sup>4</sup>While this factor was associated with the outcome, it was also collinear and was thus removed from the multinomial logistic regression model.

<sup>5</sup>Effect sizes are interpreted in accordance with Cohen<sup>24</sup> to determine the bivariate associations' practical significance. An  $r$  of 0.1 represents a small effect size, an  $r$  of 0.3 represents a medium effect size, and an  $r$  of 0.5 represents a large effect size.

**Supplemental Table 3. Subanalysis. Risk Ratio (RR), and 95% Confidence Interval (CI) of Adjusted Data Regarding Factors That Impact Supporting High School Age and Older as a Good Age to Play Tackle Football and Never Playing Tackle Football Among Respondents That Have a Child Under 18 Years of Age- 2020 SummerStyles Survey**

| Predictors  | Outcome: When is a good age for kids to start playing tackle football? |  |             |
|---|--|--|-------------|
|   | Elementary or Middle school age (5 to 13 years old)                    | High school age and above ( $\geq 14$ years) | Never       |
| <u>Sex- Female vs Male</u>  |  |  |             |
| RR  | REF  | 0.78   | 0.84        |
| 95% CI  |  | 0.52-1.15                                    | 0.50-1.40   |
| <i>P</i> value  |  | 0.21   | 0.50        |
| <u>Education- Some college vs HS grad or less</u>   |  |  |             |
| RR  | REF  | 1.46   | 1.58        |
| 95% CI  |  | 0.90-2.36                                    | 0.73-3.42   |
| <i>P</i> value  |  | 0.12   | 0.24        |
| <u>Education- Bachelor's degree or higher vs HS grad or less</u>  |  |  |             |
| RR  | REF  | 1.14   | 2.75        |
| 95% CI  |  | 0.75-1.75                                    | 1.36-5.56   |
| <i>P</i> value  |  | 0.54   | 0.01        |
| <u>I am a fan of American football- Disagree vs Agree</u>   |  |  |             |
| RR  | REF  | 1.42   | 3.29        |
| 95% CI  |  | 0.99-2.03                                    | 1.97-5.47   |
| <i>P</i> value  |  | 0.054  | <0.001      |
| <u>How many years did you play tackle football on an organized team (outside PE/gym class)?- 0 years vs <math>\geq 5</math> years</u>   |  |  |             |
| RR  | REF  | 5.06   | 27.83       |
| 95% CI  |  | 1.82-14.10                                   | 4.44-174.23 |
| <i>P</i> value  |  | 0.002  | <0.001      |
| <u>How many years did you play tackle football on an organized team (outside PE/gym class)?- 1-4 years vs <math>\geq 5</math> years</u> |  |  |             |
| RR  | REF  | 3.54   | 14.80       |
| 95% CI  |  | 1.14-11.00                                   | 2.12-103.43 |
| <i>P</i> value  |  | 0.03   | 0.01        |
| <u>How concerned are you about the safety of kids playing tackle football?- Very concerned vs Not concerned</u>                         |  |  |             |

|  |     |            |            |
|--|-----|------------|------------|
| RR   | REF | 5.99       | 9.41       |
| 95% CI   |     | 2.87-12.49 | 4.06-21.80 |
| <i>P</i> value   |     | <0.001     | <0.001     |
| <u>How concerned are you about the safety of kids playing tackle football?- Somewhat concerned vs Not concerned</u>        |     |            |            |
| RR   | REF | 2.27       | 0.85       |
| 95% CI   |     | 1.11-4.65  | 0.36-1.98  |
| <i>P</i> value   |     | 0.03       | 0.70       |
| <u>Which of the following are the top three benefits of kids playing tackle football? There are no benefits- Yes vs No</u> |     |            |            |
| RR   | REF | 2.01       | 13.14      |
| 95% CI   |     | 1.03-3.94  | 6.59-26.17 |
| <i>P</i> value   |     | 0.04       | <0.001     |