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| **Table S1.** Demographic characteristics of 26,264 adults exposed to the World Trade Center disaster by probable PTSD classification |
|   |   | **Overall** |   | **Never PTSD** |   | **Intermittent PTSD** |   | **Chronic PTSD** | p-value\* |
| **Characteristic, N (%)** |   | (N=26,264) |  | (N=19,322) |  | (N=5,212) |  | (N=1,730) |
| **Weight (lbs)** |   |   |   |   |  |   |  |   |   |
| Wave 3, mean (SD) |   | 185.4 (43.4) |   | 183.9 (42.4) |  | 189.7 (45.7) |  | 189.0 (47.0) | <0.01 |
| Wave 4, mean (SD) |   | 186.6 (43.9) |   | 185.2 (43.0) |  | 190.9 (46.2) |  | 189.3 (46.4) | <0.01 |
| **Age, Wave 3 (years)** |   |   |   |   |   |   |   |   | <0.01 |
| 25-44 |   | 6065 (23.1) |   | 4580 (23.7) |   | 1195 (22.9) |   | 290 (16.8) |  |
| 45-59 |   | 12,904 (49.1) |   | 9132 (47.2) |   | 2780 (53.3) |   | 992 (57.3) |   |
| 60+ |   | 7295 (27.8) |   | 5610 (29.1) |   | 1237 (23.7) |   | 448 (25.9) |   |
| **Sex** |   |   |   |   |   |   |   |   | <0.01 |
| Male |   | 16,463 (62.7) |   | 12,440 (64.4) |   | 3113 (59.7) |   | 910 (52.6) |   |
| Female |   | 9801 (37.3) |   | 6882 (35.6) |   | 2099 (40.3) |   | 820 (47.4) |   |
| **Race/Ethnicity** |   |   |   |   |   |   |   |   | <0.01 |
| Non-Hispanic white |   | 19,461 (74.1) |   | 14,970 (77.5) |   | 3504 (67.2) |   | 987 (57.1) |   |
| Non-Hispanic black |   | 2221 (8.5) |   | 1472 (7.6) |   | 536 (10.3) |   | 213 (12.3) |   |
| Hispanic |   | 2659 (10.1) |   | 1527 (7.9) |   | 757 (14.5) |   | 375 (21.7) |   |
| Asian  |   | 1211 (4.6) |   | 891 (4.6) |   | 240 (4.6) |   | 80 (4.6) |   |
| Other |   | 712 (2.7) |   | 462 (2.4) |   | 175 (3.4) |   | 75 (4.3) |   |
| **aEducation, Wave1** |   |   |   |   |   |   |   |   | <0.01 |
| Less than HS Grad/GED |   | 5128 (19.6) |   | 3314 (17.2) |   | 1260 (24.3) |   | 554 (32.1) |   |
| Some College |   | 6484 (24.7) |   | 4527 (23.5) |   | 1449 (27.8) |   | 508 (29.4) |   |
| College Grad |   | 8718 (33.3) |   | 6661 (34.5) |   | 1610 (31.0) |   | 447 (25.9) |   |
| Graduate Degree |   | 5875 (22.4) |   | 4781 (24.9) |   | 876 (16.9) |   | 218 (12.6) |   |
| **Pre 9/11 Physical Health Conditions** |   |   |   |   |   |   | 0.03 |
| No conditions |   | 21,779 (82.9) |   | 15,951 (82.6) |   | 4395 (84.3) |   | 1433 (82.8) |   |
| 1 condition |   | 3793 (14.4) |   | 2852 (14.8) |   | 697 (13.4) |   | 244 (14.1) |   |
| 2+ conditions |   | 692 (2.6) |   | 519 (2.7) |   | 120 (2.3) |   | 53 (3.1) |   |
| **Pre 9/11 Mental Health Conditions** |   |   |   |   |   |   | <0.01 |
| No |   | 24,650 (93.9) |   | 18,274 (94.6) |   | 4796 (92.0) |   | 1580 (91.3) |   |
| Yes |   | 1614 (6.2) |   | 1048 (5.4) |   | 416 (8.0) |   | 150 (8.7) |   |
| **bPhysical Injury on 9/11** |   |   |   |   |   |   |   |   | <0.01 |
| No Injury |   | 22,679 (86.8) |   | 17,517 (91.0) |   | 4059 (78.6) |   | 1103 (64.8) |   |
| 1 Injury |   | 2539 (9.7) |   | 1378 (7.2) |   | 790 (15.3) |   | 371 (21.8) |   |
| 2+ Injuries |   | 901 (3.5) |   | 360 (1.9) |   | 314 (6.1) |   | 227 (13.4) |   |
| \*p-value using chi-square test for categorical variables and one-way ANOVA for means*Abbreviations:* N: Number; PTSD: post-traumatic stress disorderaN=59 missing education, bN=145 missing physical injury |

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| **Table S2.** Weight change over time by PTSD history in males and females by age group, World Trade Center Health Registry, 2003-2012, including those with weight loss >25% |
| **PTSD History by Age Category** | **Females** |  | **Males** |
| W3 Weight | W4 Weight | Weight Δ (95% CI) |  | W3 Weight | W4 Weight | Weight Δ (95% CI) |
| **Age 25-44** |  |  |   |   |  |  |  |   |  |
| Never  | 162.00 | 165.80 | **3.79** |  **(3.22, 4.36)** |   | 198.49 | 200.74 | **2.24** |  **(1.68, 2.81)** |
| Intermittent | 172.55 | 177.37 | **4.82** |  **(3.63, 6.01)** |   | 203.58 | 207.01 | **3.42** |  **(1.98, 4.87)** |
| Chronic | 174.19 | 179.05 | **4.86** |  **(1.86, 7.87)** |   | 206.14 | 206.71 | 0.57 |  (-2.76, 3.90) |
| **Age 45-59** |  |  |   |   |  |  |  |   |   |
| Never  | 169.32 | 171.72 | **2.40** |  **(1.88, 2.92)** |   | 202.71 | 203.81 | **1.09** |  **(0.74, 1.44)** |
| Intermittent | 176.78 | 177.43 | 0.66 |  (-0.49, 1.80) |   | 207.43 | 207.96 | 0.53 |  (-0.27, 1.33) |
| Chronic | 174.76 | 175.97 | 1.21 |  (-0.45, 2.87) |   | 208.65 | 208.09 | -0.56 |  (-1.90, 0.78) |
| **Age 60+** |   |   |   |   |   |  |  |   |   |
| Never  | 163.83 | 163.47 | -0.63 |  (-1.32, 0.05) |   | 190.37 | 189.38 | **-0.99** |  **(-1.45, -0.53)** |
| Intermittent | 170.19 | 168.38 | **-1.81** |  **(-3.40, -0.22)** |   | 196.81 | 194.12 | **-2.69** |  **(-3.95, -1.42)** |
| Chronic | 171.46 | 163.19 | **-4.11** |  **(-5.77, -2.45)** |   | 196.72 | 195.86 | -0.86 |  (-2.80, 1.07) |
| Abbreviations: PTSD, posttraumatic stress disorder; CI, confidence intervalModels adjusted for the following covariates: race/ethnicity, number of physical injuries on 9/11, W1 education, mental health conditions pre-9/11, number of pre-9/11 chronic conditions\*Female analytic sample size, Age 25-44, N=2,629; Age 45-59, N=4,274; Age 60+, N=2,833\*\*Male analytic sample size:, Age 25-44, N=3,402; Age 45-59, N= 8,589; Age 60+, N=4,410 |