**Supplemental Table 1: Comparison of Study Sample to full NHS2 cohort (2017)**

|  |  |  |
| --- | --- | --- |
|  | **Analytic Study Sample** | **Full NHS 2 Cohort** |
| **Characteristic** | No Reported Migraine(17,221, 52%) | Ever Reported Migraine(16,106, 48%) | No Reported Migraine(37,170, 52%) | Ever Reported Migraine (33,685, 48%) |
| Age in 2017, mean (SD)  | 64.8 (4.6)  | 64.5 (4.6)  | 62.9 (4.6) | 62.6 (4.6) |
| Non-Hispanic white | 96  | 96  | 94 | 95 |
| **Marital Status** |
|  Married, % | 74 | 74  | 74 | 74 |
|      Divorced, %  | 11  | 12  | 12 | 13 |
|      Separated, %  | <1 | 1  | <1 | <1 |
|      Widowed, %  | 6  | 6  | 6 | 6 |
|      Partnership, %  | 2  | 1  | 2 | 2 |
|      Single, %  | 6  | 5  | 5 | 4 |
| **Medical/Lifestyle Factors** |
| Ever Diagnosis of high blood pressure, %  | 25  | 28  | 27 | 29 |
| Ever Diagnosis of high cholesterol, %  | 28  | 30  | 29 | 32 |
| SSRI3 Use % | 12  | 16   | 11 | 15 |
| Alcohol g/day, mean, (SD) | 2.5 (5.6)  | 2.1 (4.8)  | 3.1 (5.9) | 2.6 (5.4) |
| Current smoker, %  | 3  | 3  | 4 | 4 |
| BMI3, kg/m², mean (SD) | 27.4 (6.2)  | 27.8 (6.3) | 27.4 (6.3) | 27.7 (6.4) |

1Self-reported physician-diagnosed migraine (pre-2007), self-reported migraine headache (2007-2020) 2Missingness for education level depression was 3%, missingness for marital status, and cigarette smoking was <1%. All other variables had no missing values.

3CES-D: Center for Epidemiological Studies Depression Scale. SSRI: Selective Serotonin Reuptake Inhibitor. BMI: Body Mass Index.

**Supplemental Table 2: Migraine Prevalence by Trauma Type**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|   | **Sexual/Interpersonal**  | **Accident/Disaster**  | **Sudden Death**  | **Illness/Injury**  | **Nursing**  |
| Migraine  | 7,833 (54%)  | 5536 (53%)  | 7,536 (50%)  | 5,937 (53%)  | 4,905 (52%)  |
| No Migraine  | 6,655 (46%)  | 4849 (47%)  | 7,436 (50%)  | 5,323 (47%)  | 4,602 (48%)  |
| Total  | 14,489 | 10,385  | 14,972  | 11,260  | 9,507   |

**Supplemental Table 3: PTSD Symptoms and incident migraine\*- 2008 stress questionnaire**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PTSD Symptoms**  | **Incident Migraine** N (%)  | **No Incident Migraine** N (%)  | **Crude RR**(95% CI)  | **Adj RR\***RR (95% CI)  |
| **6-7 PTSD Symptoms**  | 100 (7%) | 1,439 | 1.53 (1.23-1.91) | 1.77(1.32-2.37) |
| **4-5 PTSD Symptoms**  | 146 (6%) | 2,623 | 1.23 (1.01-1.49) | 1.16 (0.88-1.52) |
| **1-3 PTSD Symptoms** | 204 (5%) | 4,296 | 1.05 (0.88-1.25) | 1.15 (0.92-1.46) |
| **Trauma, no PTSD Symptoms** | 633 (5%) | 13,854 | 1.01 (0.88-1.16) | 1.14 (0.95-1.38) |
| **No trauma**  | 278 (5%) | 6,135 | Ref | Ref |

\*PTSD symptoms measured in 2008, new onset migraine 2009-2013 \*\*Adjusted for race, marital status, high blood pressure, high cholesterol, alcohol intake, smoking, BMI

**Supplemental Table 4: PTSD Symptoms and incident migraine with aura- 2008 stress questionnaire**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PTSD Symptoms**  | **Migraine with aura****N (%)** | **Migraine without aura****N (%)** | **Crude RR****(95% CI)** | **Adj RR\*****(95% CI)** |
| **6-7 PTSD Symptoms**  | 30 (30%) | 70 | 1.37 (0.94-1.98) | 1.28 (0.77-2.14) |
| **4-5 PTSD Symptoms**  | 45 (31%) | 101 | 1.49 (1.01-1.95) | 1.66 (1.06-2.58) |
| **1-3 PTSD Symptoms** | 53 (26%)  | 151 | 1.18 (0.86-1.63) | 1.36 (0.89- 2.07) |
| **Trauma, no PTSD Symptoms** | 146 (23%) | 487 | 1.05 (0.81-1.37) | 1.06 (0.77-1.53) |
| **No trauma**  | 61 (22%) | 217 | Ref | Ref |

\*PTSD symptoms measured in 2008, new onset migraine 2009-2013 \*\*Adjusted for race, marital status, high blood pressure, high cholesterol, alcohol intake, smoking, BMI