**Supplemental Digital Content 2. Odds Ratios for Positive Screens for Chronic Multisymptom Illness/Gulf War Illness Stratified by Race/Ethnicity, Millennium Cohort Study, 2001–2016.**a

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| --- | --- | --- | --- | --- |
|  |  | **White, non-Hispanic**  **(N = 56,733)**  **OR (95% CI)** | **Black, non-Hispanic**  **(N = 10,921)**  **OR (95% CI)** | **Other Race/Ethnicity**  **(N = 8921)**  **OR (95% CI)** |
| Deployment status | Gulf War veteran (reference) | 1.00 | 1.00 | 1.00 |
|  | Era personnel | 0.79 (0.71, 0.87) | 0.65 (0.53, 0.79) | 0.82 (0.64, 1.04) |
|  | Non-era personnel | 0.75 (0.68, 0.83) | 0.79 (0.64, 0.98) | 0.71 (0.55, 0.92) |
| Time(in 5-yer increments) | Time | 1.70 (1.63, 1.77) | 1.69 (1.54, 1.85) | 1.89 (1.68, 2.12) |
| Time x era personnel | 1.03 (0.98, 1.07) | 1.21 (1.10, 1.34) | 1.01 (0.89, 1.14) |
|  | Time x non-era personnel | 0.99 (0.94, 1.04) | 1.05 (0.94, 1.16) | 0.91 (0.81, 1.03) |
| Age (at study baseline) | 0–34 (reference) | 1.00 | 1.00 | 1.00 |
|  | 35–44 | 1.00 (0.94, 1.06) | 1.14 (1.01, 1.30) | 1.03 (0.89, 1.19) |
|  | >44 | 0.84 (0.78, 0.91) | 1.13 (0.93, 1.37) | 1.03 (0.84, 1.27) |
| Sex | Male (reference) | 1.00 | 1.00 | 1.00 |
|  | Female | 2.14 (2.03, 2.26) | 2.22 (2.01, 2.47) | 2.01 (1.78, 2.26) |
| Service branch | Army (reference) | 1.00 | 1.00 | 1.00 |
|  | Navy/Coast Guard | 0.53 (0.50, 0.57) | 0.54 (0.47, 0.62) | 0.52 (0.45, 0.60) |
|  | Marine Corps | 0.70 (0.63, 0.78) | 0.65 (0.50, 0.85) | 0.74 (0.60, 0.92) |
|  | Air Force | 0.48 (0.45, 0.51) | 0.42 (0.37, 0.48) | 0.41 (0.36, 0.47) |
| Component | Active duty (reference) | 1.00 | 1.00 | 1.00 |
|  | Reserves/National Guard | 0.66 (0.63, 0.69) | 0.59 (0.53, 0.66) | 0.58 (0.52, 0.65) |
| Baseline chemical exposure | No exposure (reference) | 1.00 | 1.00 | 1.00 |
| Baseline exposure | 1.78 (1.67, 1.90) | 2.03 (1.74, 2.37) | 1.81 (1.54, 2.11) |
| Time-varying chemical exposure | No exposure (reference) | 1.00 | 1.00 | 1.00 |
| Time-varying exposure | 1.15 (1.09, 1.21) | 1.46 (1.27, 1.66) | 1.33 (1.16, 1.52) |
| Pesticide exposure | No exposure (reference) | 1.00 | 1.00 | 1.00 |
|  | Time-varying reported | 1.50 (1.46, 1.56) | 1.63 (1.50, 1.78) | 1.64 (1.50, 1.79) |
| Anthrax vaccine | None reported at baseline (reference) | 1.00 | 1.00 | 1.00 |
|  | Reported at baseline | 1.13 (1.07, 1.18) | 1.13 (1.01, 1.26) | 1.11 (0.99, 1.25) |
| OEF/OIF deployment | Never deployed (reference) | 1.00 | 1.00 | 1.00 |
|  | Previously deployed | 1.45 (1.39, 1.51) | 1.52 (1.38, 1.68) | 1.46 (1.32, 1.61) |
| PTSD screen | Negative screen (reference) | 1.00 | 1.00 | 1.00 |
|  | Positive screen | 14.76 (13.38, 16.28) | 16.19 (13.08, 20.05) | 15.51 (12.57, 19.12) |
| Depression screen | Negative screen (reference) | 1.00 | 1.00 | 1.00 |
|  | Positive screen | 24.11 (20.70, 28.07) | 13.37 (10.06, 17.77) | 12.89 (9.51, 17.47) |
| Panic disorder screen | Negative screen (reference) | 1.00 | 1.00 | 1.00 |
|  | Positive screen | 6.32 (5.49, 7.26) | 6.69 (4.71, 9.51) | 6.35 (4.48, 9.00) |
| Anxiety screen | Negative screen (reference) | 1.00 | 1.00 | 1.00 |
|  | Positive screen | 17.39 (14.33, 21.11) | 11.45 (7.56, 17.35) | 12.95 (8.43, 19.89) |
| Random intercept varianceb |  | 3.63 | 3.28 | 2.98 |

Abbreviations: CI, confidence interval; OEF, Operation Enduring Freedom; OIF, Operation Iraqi Freedom; OR, odds ratio; PTSD, post-traumatic stress disorder. aOdds ratios were estimated using the NLMIXED procedure in SAS software, version 9.4. bThese results were not exponentiated.