**Appendix A:** **Unadjusted and adjusted odds ratios with 95% confidence intervals examining the association between psychosocial factors and suicide among IMR workers (n=77) and workers from all other occupational groups (n=14,300) (females only) (N=14,377).**

|  | | | **Unadjusted** | **Adjusted** |
| --- | --- | --- | --- | --- |
| **Covariate** | **Level** | **N** | **Odds Ratio (95% CI)** | **Odds Ratio (95% CI)** |
| Treatment for a mental health problem or substance abuse problem (Current) | Yes | 5945 | 0.76 (0.48-1.22) | 0.80 (0.50-1.28) |
| No, Not Available, Unknown | 8432 | - | - |
| Physical health problem(s) appear to have contributed to the death | Yes | 2619 | 1.09 (0.62-1.91) | 1.18 (0.66-2.10) |
| No, Not Available, Unknown | 11758 | - | - |
| Diagnosis of Depression (Ever) | Yes | 7371 | 0.75 (0.48-1.18) | 0.77 (0.49-1.21) |
| No, Not Available Unknown | 7006 | - | - |
| Diagnosis of Bipolar Disorder (Ever) | Yes | 1857 | 1.12 (0.59-2.13) | 1.10 (0.58-2.09) |
| No, Not Available Unknown | 12520 | - | - |
| Diagnosis of Anxiety (Ever) | Yes | 2084 | 0.68 (0.33-1.42) | 0.69 (0.33-1.45) |
| No, Not Available Unknown | 12293 | - | - |
| Diagnosis of PTSD (Ever) | Yes | 355 | 2.18 (0.79-5.99) | 2.12 (0.77-5.84) |
| No, Not Available Unknown | 14022 | - | - |
| Diagnosis of schizophrenia (Ever) | Yes | 359 | 1.59 (0.50-5.06) | 1.41 (0.44-4.52) |
| No, Not Available Unknown | 14018 | - | - |
| Other Mental Health Diagnosis (Ever) | Yes | 949 | 1.88 (0.94-3.78) | 1.79 (0.89-3.61) |
| No, Not Available Unknown | 13428 | - | - |

NC = Not Calculable; No participants in one of the comparison groups.

\*p<0.05

\*\*Other Mental Health Diagnoses include schizophrenia, ADD or hyperactivity disorder, eating disorder, obsessive-compulsive disorder, autism spectrum (includes Asperger’s Syndrome), fetal alcohol syndrome, down syndrome, dementia (e.g., Alzheimer’s disease, Lewy Body Dementia), personality disorders, and others not included.

\*\*\* Adjusted for age, race/ethnicity, educational level, marital status

**Appendix B:** **Unadjusted and adjusted odds ratios with 95% confidence intervals examining the association between firearm-related factors and suicide among IMR workers (n=31) and workers from all other occupational groups (n=4228) (females only) (N=4259).**

|  | | | **Unadjusted** | **Adjusted** | |
| --- | --- | --- | --- | --- | --- |
| **Covariate** | **Level** | **N** | **Odds Ratio (95% CI)** | | **Odds Ratio (95% CI)** | |
| Type of Firearm Used in the Suicide | Handgun | 3640 | 0.90 (0.27-2.99) | | 0.91 (0.27-3.06) | |
| Long Gun | 240 | - | | - | |
| Unknown | 379 | 1.05 (0.17-6.35) | | 1.11 (0.18-6.78) | |
| Storage of Firearm Used in Suicide | Locked | 237 | 0.30 (0.04-2.52) | | 0.31 (0.04-2.61) | |
| NA | 274 | 0.26 (0.03-2.18) | | 0.24 (0.03-2.01) | |
| Not locked | 443 | - | | - | |
| Unknown | 3315 | 0.50 (0.20-1.23) | | 0.43 (0.17-1.07) | |
| Firearm Used in Suicide Always Stored Loaded | Loaded | 277 | 2.14 (0.24-19.32) | | 2.16 (0.24-19.66) | |
| NA | 274 | 0.53 (0.03-8.61) | | 0.51 (0.03-8.33) | |
| Unloaded | 147 | - | | - | |
| Unknown | 3561 | 1.03 (0.14-7.67) | | 0.95 (0.13-7.10) | |
| Ownership of Firearm Used in Suicide | Any other Owner | 909 | 0.53 (0.18-1.52) | | 0.54 (0.18-1.58) | |
| Shooter | 1058 | - | | - | |
| Unknown | 2292 | 0.63 (0.29-1.37) | | 0.62 (0.28-1.36) | |

NC = Not Calculable; No participants in one of the comparison groups.

\* Adjusted for age, race/ethnicity, educational level, marital status

**Appendix C: Standard Occupational Codes – Broad Occupations**

|  |  |  |
| --- | --- | --- |
| **Detailed Occupations** | **Frequency** | **Percent** |
| **First-Line Supervisors of Mechanics, Installers, and Repairers** | 151 | 2.93 |
| **Computer, Automated Teller, and Office Machine Repairers** | 312 | 6.05 |
| **Radio and Telecommunications Equipment Installers and Repairers** | 142 | 2.75 |
| **Miscellaneous Electrical and Electronic Equipment Mechanics, Installers, and Repairers** | 165 | 3.20 |
| **Aircraft Mechanics and Service Technicians** | 152 | 2.95 |
| **Automotive Technicians and Repairers** | 1784 | 34.58 |
| **Bus and Truck Mechanics and Diesel Engine Specialists** | 279 | 5.41 |
| **Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics** | 152 | 2.95 |
| **Small Engine Mechanics** | 65 | 1.26 |
| **Miscellaneous Vehicle and Mobile Equipment Mechanics, Installers, and Repairers** | 57 | 1.10 |
| **Control and Valve Installers and Repairers** | 32 | 0.62 |
| **Heating, Air Conditioning, and Refrigeration Mechanics and Installers** | 411 | 7.97 |
| **Home Appliance Repairers** | 39 | 0.76 |
| **Industrial Machinery Installation, Repair, and Maintenance Workers** | 466 | 9.03 |
| **Line Installers and Repairers** | 202 | 3.92 |
| **Precision Instrument and Equipment Repairers** | 24 | 0.47 |
| **Maintenance and Repair Workers, General** | 502 | 9.73 |
| **Wind Turbine Service Technicians** | 5 | 0.10 |
| **Miscellaneous Installation, Maintenance, and Repair Workers** | 219 | 4.25 |