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| **Supplemental Table 1. Comparison of cases and controls on sociodemographic and Army history variables** |  |  |  |
|   | **Next of Kin** | **Supervisor** |
|  | **Cases** | **Controls (Propensity)** | **Controls (12-month ideation)** | **Cases** | **Controls (Propensity)** | **Controls (12-month ideation)** |
|  | **n=61** | **n=128** | **n=108** | **n=107** | **n=80** | **n=73** |
|   | **%** | **%** | **OR (CI)** | **%** | **OR (CI)** | **%** | **%** | **OR (CI)** | **%** | **OR (CI)** |
| **Demographic Variables** |   |   |   |   |   |   |   |   |   |   |
| **Gender** |   |   |   |   |   |   |   |   |   |   |
| Female | 8.2 | 7.8 | 1.0 (0.4-3.0) | 9.0 | 0.9 (0.1-7.8) | 12.2 | 9.8 | 1.3 (0.6-2.9) | 12.3 | 1.0 (0.1-8.8) |
| Male | 91.8 | 92.2 | - | 91.0 | - | 87.9 | 90.3 | - | 87.7 | - |
| **Marital Status** |  |   |   |   |  |   |   |   |   |   |
| Never Married | 34.6 | 28.9 | 1.4 (0.8-2.7) | 30.2 | 1.3 (0.3-5.0) | 34.8 | 32.2 | 1.2 (0.7-2.1) | 32.2 | 1.1 (0.2-5.4) |
| Previously Married | 10.2 | 4.3 | 2.8 (1.0-8.4) | 7.3 | 1.6 (0.2-16.6) | 9.2 | 5.1 | 2.0 (0.7-5.6) | 10.6 | 0.9 (0.1-9.9) |
| Currently Married | 55.3 | 66.8 | - | 62.5 | - | 56.1 | 62.7 | - | 57.2 | - |
| **Dependent Children** |  |   |   |   |  |   |   |   |   |   |
| 0 | 51.4 | 51.3 | - | 54.6 | - | 48.7 | 48.8 | - | 55.7 | - |
| 1 | 26.5 | 17.3 | 1.5 (0.8-3.1) | 19.0 | 1.5 (0.3-7.4) | 31.6 | 16.6 | 1.9\* (1.0-3.6) | 20.3 | 1.8 (0.3-11.3) |
| 2 | 13.3 | 17.8 | 0.7 (0.3-1.8) | 15.6 | 0.9 (0.2-5.4) | 7.7 | 22.4 | 0.3\* (0.1-0.8) | 13.9 | 0.6 (0.1-5.8) |
| 3+ | 8.9 | 13.6 | 0.6 (0.2-1.8) | 10.9 | 0.9 (0.1-6.8) | 12.1 | 12.3 | 1.0 (0.4-2.2) | 10.2 | 1.4 (0.1-15.6) |
| **Race/ethnicity** |  |   |   |   |  |   |   |   |   |   |
| White | 71.1 | 63.3 | - | 69.1 | - | 65.1 | 60.2 | - | 64.3 | - |
| Black | 19.3 | 16.3 | 1.1 (0.5-2.2) | 13.1 | 1.4 (0.2-8.7) | 17.7 | 21.3 | 0.8 (0.4-1.5) | 12.6 | 1.4 (0.2-12.6) |
| Hispanic | 5.2 | 16.5 | 0.3\* (0.1-0.9) | 9.5 | 0.5 (0.1-5.1) | 8.9 | 14.4 | 0.6 (0.2-1.3) | 13.8 | 0.6 (0.1-5.5) |
| Asian /Other | 4.4 | 3.9 | 1.0 (0.2-4.1) | 8.4 | 0.5 (0.0-5.6) | 8.4 | 4.2 | 1.9 (0.6-5.5) | 9.3 | 0.9 (0.1-11.2) |
| **Rank** |  |   |   |   |  |   |   |   |   |   |
| E1/E2 | 3.9 | 4.1 | 1.4 (0.3-6.5) | 5.3 | 1.0 (0.1-17.8) | 6.4 | 6.7 | 0.9 (0.3-2.7) | 4.1 | 1.8 (0.0-71.0) |
| E3 | 6.6 | 6.7 | 1.5 (0.4-5.0) | 5.7 | 1.5 (0.1-22.9) | 7.7 | 6.0 | 1.3 (0.4-3.6) | 5.6 | 1.7 (0.1-40.7) |
| E4 | 33.3 | 50.2 | - | 43.7 | - | 37.1 | 36.2 | - | 44.6 | - |
| E5/E6 | 34.0 | 18.2 | 2.8\* (1.4-5.8) | 27.6 | 1.6 (0.4-7.2) | 33.5 | 23.3 | 1.4 (0.7-2.6) | 27.0 | 1.5 (0.3-8.6) |
| E7-E9 | 8.9 | 13.4 | 1.0 (0.4-2.8) | 6.8 | 1.7 (0.1-20.6) | 8.1 | 17.2 | 0.5 (0.2-1.1) | 6.4 | 1.5 (0.1-30.9) |
| WO | 4.4 | 2.1 | 3.2 (0.7-15.6) | 1.6 | 3.6 (0.0-360.2) | 1.6 | 2.5 | 0.6 (0.1-4.2) | 1.0 | - |
| CO | 8.9 | 5.3 | 2.5 (0.8-7.8) | 9.2 | 1.3 (0.1-11.8) | 5.6 | 8.1 | 0.7 (0.2-2.0) | 11.4 | 0.6 (0.1-7.0) |
| **Education** |  |   |   |   |  |   |   |   |   |   |
| H.S.- Alternate Education- GED | 19.3 | 10.9 | 2.3\* (1.0-5.1) | 10.9 | 2.2 (0.3-15.0) | 20.1 | 17.1 | 1.1 (0.6-2.2) | 8.7 | 2.2 (0.2-28.5) |
| High School diploma | 56.3 | 73.0 | - | 69.0 | - | 65.9 | 63.9 | - | 63.8 | - |
| Some College | 4.4 | 4.6 | 1.2 (0.3-5.0) | 1.5 | 3.5 (0.0-393.8) | 4.3 | 4.4 | 1.0 (0.3-3.3) | 3.4 | 1.2 (0.0-65.0) |
| College or higher | 20.0 | 11.6 | 2.2\* (1.0-4.9) | 18.6 | 1.3 (0.3-6.5) | 9.7 | 14.6 | 0.6 (0.3-1.4) | 24.1 | 0.4 (0.1-2.3) |
| **Age At Entry to Army Service** |  |   |   |   |  |   |   |   |   |   |
| 17-20 | 53.3 | 59.7 | - | 55.7 | - | 60.2 | 56.1 | - | 52.3 | -  |
| 21-24 | 25.5 | 23.6 | 1.2 (0.6-2.4) | 30.2 | 0.9 (0.2-3.6) | 29.2 | 26.3 | 1.0 (0.6-1.9) | 31.0 | 0.8 (0.2-4.2) |
| 25+ | 21.3 | 16.7 | 1.4 (0.7-3.0) | 14.2 | 1.6 (0.3-9.3) | 10.6 | 17.6 | 0.6 (0.3-1.2) | 16.7 | 0.5 (0.1-4.3) |
| **Current age** |  |   |   |   |  |   |   |   |   |   |
| 18-24 | 23.5 | 34.6 | 0.5 (0.3-1.2) | 35.0 | 0.6 (0.1-2.5) | 34.3 | 27.9 | 1.0 (0.5-1.8) | 36.8 | 0.8 (0.1-4.4) |
| 25-29 | 38.2 | 30.8 | - | 31.6 | - | 36.8 | 28.4 | - | 29.7 | -  |
| 30-34 | 17.7 | 14.9 | 1.0 (0.4-2.2) | 12.3 | 1.2 (0.2-8.9) | 16.4 | 19.8 | 0.6 (0.3-1.3) | 11.0 | 1.2 (0.1-15.0) |
| 35+ | 20.7 | 19.7 | 0.8 (0.4-1.9) | 21.0 | 0.8 (0.1-4.5) | 12.5 | 23.9 | 0.4\* (0.2-0.9) | 22.5 | 0.4 (0.1-3.4) |
|  \*p<0.05 (cases vs controls) |

 Table abbreviated due to space constraints. Results for excluded variables available upon request (religion, deployment status, number of years since deployment, count of active duty years in

 service, AFQT score, MOS).

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| **Supplemental Table 2. Characteristics of suicide deaths** |  |  |
|   |  |
|  | **Next of Kin** | **Supervisor** |
|  | **%**  | **%**  |
|  |   |   |
| **How much planning or preparation was involved? For instance was it impulsive or did he/she do something like save up pills over time or go out and purchase a gun for this purpose?** |   |   |
|  No preparation  | 58.7 | 61.3 |
|  Partial/mild to moderate preparation (e.g., researching methods on the Internet) | 17.3 | 17.8 |
|  Complete/extensive preparation (e.g., saving pills for a few weeks)  | 24.0 | 20.9 |
| **Had he/she made any preparations in case he/she died - like making out a will or giving away things that were special to him/her?** |   |   |
|  None  | 76.8 | 84.1 |
|  Thought about or made some arrangements (e.g., talked about making a will)  | 8.5 | 7.7 |
|  Made definite plans or completed arrangements (e.g., wrote a will, took out/cancelled life insurance)  | 14.7 | 8.3 |
| **Did he/she write a note or letter to anyone or put something in a diary about his/her plans?** |   |   |
|  Absence of note, letter, or diary entry | 61.6 | 70.6 |
|  Note or letter written, but torn up; diary entry crossed out; note, letter, or diary entry thought about  | 3.0 | 1.0 |
|  Presence of note, letter, or diary entry  | 35.4 | 28.4 |
| **Did he/she contact someone who could have helped him/her before- during- or after the attempt?**  |   |   |
|  Notified potential helper regarding attempt (e.g., called 911) | 28.2 | 22.0 |
|  Contacted but did not specifically notify potential helper regarding attempt  | 19.1 | 19.1 |
|  Did not contact or notify potential helper   | 52.7 | 58.8 |
| **Was anyone present or nearby (for example - within visual or vocal contact) when this happened?**  |   |   |
|  Somebody present (e.g., someone was in the same room [or within 10 feet if outdoors]) | 19.7 | 17.1 |
|  Somebody nearby, or in visual or vocal contact (e.g., someone was in the same dwelling) | 9.4 | 23.0 |
|  No one nearby or in visual or vocal contact  | 70.9 | 59.9 |
| **Had he/she done anything to avoid being discovered and possibly stopped while making his/her attempt?** |   |   |
|  No precautions | 59.1 | 54.0 |
|  Passive precautions (e.g., avoided others and was alone in a room but didn’t lock the doors) | 12.3 | 13.5 |
|  Active precautions (e.g., locking a door, going to a secluded place) | 28.6 | 32.5 |
| **When s/he made the attempt, how likely was it that s/he could have been discovered by someone else?** |   |   |
|  Intervention was probable (e.g., Soldier with others in barracks) | 43.1 | 39.8 |
|  Intervention was not likely (e.g., Soldier alone in barracks, but someone could come in at any time)  | 15.7 | 32.3 |
|  Intervention was highly unlikely (e.g., Soldier was in home while family was away on vacation)  | 41.3 | 27.9 |
| **Had s/he heard of any suicide or attempted suicide in the local area before his/her?** | 45.8 | 41.9 |