## **Supplementary Online Content**

- Ursano RJ, Kessler RC, Naifeh JA, et al. Risk factors associated with attempted suicide among US army soldiers without a history of mental health diagnosis. *JAMA Psychiatry*. Published online August 29, 2018. doi:10.1001/jamapsychiatry.2018.2069
- **eTable 1.** List and Brief Descriptions of Administrative Data Systems Included in the 2004-2009 Army STARRS Historical Administrative Data Study (HADS)
- **eTable 2.** List of Military Occupational Specialties (MOS) in the 2004-2009 Army STARRS Historical Administrative Data Study (HADS) That Were Categorized as Combat Arms, Special Forces, and Combat Medic
- **eTable 3.** International Classification of Diseases, Ninth Revision–Clinical Modification (ICD-9-CM) Codes Used to Identify Mental Disorders
- **eTable 4.** The National Corrections Reporting Program (NCRP) Offense Codes Used to Identify Categories of Criminal Perpetration and Victimization
- **eTable 5.** List of Family Violence-Related Data Sources Included in the 2004-2009 Army STARRS Historical Administrative Data Study (HADS)
- eTable 6. The National Corrections Reporting Program (NCRP) Offense Codes Used to Identify Family Violence
- **eTable 7.** Multivariable Associations of Sociodemographic, Service-Related, and Mental Health Variables With Suicide Attempt in the Total Sample of Regular Army Enlisted Soldiers
- **eTable 8.** Counts and Rates of Suicide Attempts by Sociodemographic and Service-Related Variables Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis
- **eTable 9.** Multivariable Associations of Marriage Start/End Recency With Suicide Attempt in the Total Sample of Regular Army Enlisted Soldiers
- **eTable 10.** Counts and Rates of Suicide Attempts by Marriage Start/End Recency Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis
- **eTable 11.** Counts and Rates of Suicide Attempts by Marriage Start/End Recency Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis
- **eTable 12.** Counts and Rates of Suicide Attempts by Outpatient Physical and Injury-Related Healthcare Visits Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis
- **eTable 13.** Multivariable Associations of Crime Victimization/Perpetration and Family Violence With Suicide Attempt in the Total Sample of Regular Army Enlisted Soldiers
- **eTable 14.** Counts and Rates of Suicide Attempts by Crime Victimization/Perpetration and Family Violence Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis

This supplementary material has been provided by the authors to give readers additional information about their work.

	Brief Descriptions of Administrative Data Systems Included in the 2004-2009 torical Administrative Data Study (HADS)
Database Acronym	Description
ACR	ARMY CENTRAL REGISTRY (ACR): This is a victim-based registry documenting spouse and child abuse events involving Army service members. Substantiated incidents or evidence of an incident in the ACR include physical, sexual, emotional, and neglect subtypes.
AFMETS	ARMED FORCES MEDICAL EXAMINER TRACKING SYSTEM (AFMETS): Variables include manner of death and cause of death, including self-inflicted.
ACMIS	ARMY COURT MARTIAL MANAGEMENT INFORMATION SYSTEMS (ACMIS). System provides for the efficient collection, manipulation and presentation of data associated with Army courts martial. System includes data on docket entries; the accused; alleged offenses; trials and decisions; and sentences.
CIMS / ACI2	CRIMINAL INVESTIGATION DIVISION INFORMATION MANAGEMENT SYSTEM (CIMS) / AUTOMATED CRIMINAL INVESTIGATION/CRIMINAL INTELLIGENCE (ACI2). Event-level crime record database. Separate system from ASCRC.
CIMS / ASCRC (OIF)	CRIMINAL INVESTIGATION DIVISION INFORMATION MANAGEMENT SYSTEM (CIMS) / AUTOMATED SYSTEM CRIME RECORD CENTER (ASCRC). Receives, maintains, accounts for, disseminates information from, and disposes of Army crime records; retrieves and correlates data and statistics from the records and provides to authorized recipients; coordinates automation of crime records data and information; and serves as functional proponent for the electronic imaging of crime records.
COPS / MPRS	CENTRALIZED OPERATIONS POLICE SUITE (COPS) / MILITARY POLICE REPORTING SYSTEM (MPRS). Centralized database that contains subsystems supporting the Military Police Corps Army-wide. Contains information included in law enforcement reports.
DCIPS	DEFENSE CASUALTY INFORMATION PROCESSING SYSTEM (DCIPS): Casualty data system for Army, Navy, Air Force, and Marines. It contains information on all casualties including deceased active duty members (and cause of death).
DMDC/CTS	DEFENSE MANPOWER DATA CENTER (DMDC) / CONTINGENCY TRACKING SYSTEM (CTS): Collection of activation, mobilization, and deployment data. Provides information to DoD decision makers and includes a CTS Deployment File used for tracking the location of deployed personnel.
DMDC/Master Personnel & DMDC/Transaction files	DEFENSE MANPOWER DATA CENTER (DMDC) / MASTER PERSONNEL & TRANSACTION FILES: The Active Duty Master File provides an inventory of all individuals on active duty (excluding reservists on active duty for training) at a point in time. It is a standardized and centralized database of present and past members of the active duty force. Personal data elements include social security number, education level, home of record, date of birth, marital status, number of dependents, race, ethnic group, and name. Military data

	elements include Service, pay grade, Armed Forces Qualification Test percentile (enlisted only), source of commission (officers only), military primary duty and secondary occupation, Unit Identification Code, months of service, duty location, Estimated Termination of Service date, basic active service date, date of current rank, pay entry base date, foreign language ability, and major command code.
DODSER	DEPARTMENT OF DEFENSE SUICIDE EVENT REPORT (DODSER): Provides risk and protective factor information for suicide events. This file contains non-fatal attempts, completed suicides, and suicide ideation cases.
MDR	MILITARY HEALTH SYSTEM DATA REPOSITORY (MDR): This database contains information about medical, dental, pharmaceutical, and ancillary claims data for both in network and purchased care as well as both inpatient and outpatient treatment. Data are collected on both Army personnel and their beneficiaries.
DMDC/DEERS	DEFENSE MANPOWER DATA CENTER (DMDC) / DEFENSE ENROLLMENT ELIGIBILITY REPORTING SYSTEM (DEERS): A DoD PDR containing personnel data and data related to DoD affiliation, benefits, employment, and pay.
SADMS	SEXUAL ASSAULT DATA MANAGEMENT SYSTEM (SADMS). Centralized repository of relevant data regarding the entire lifecycle of sexual assault cases, involving victims and/or alleged offenders.
TMDS	THEATER MEDICAL DATA STORE (TMDS): Used to track, analyze, view and manage Soldier medical treatment information recorded in the theater of operations. Features of TMDS: accessibility and visibility of service members' deployed medical records, outpatient and inpatient treatment records created in theater facilities, treatment records from other applications, reports on movement of patients, patient status and injury/illnesses.
TRAC2ES	TRANSCOM REGULATING AND COMMAND AND CONTROL EVACUATION SYSTEM (TRAC2ES): A tracking system for all medical transfers across the world for all DOD services.

Combat Arms		
	E11B	Infantryman
	E11C	Indirect Fire Infantryman
	E11Z	Infantry Senior Sergeant
	E13B	Cannon Crewmember
	E13E	Cannon Fire Direction Specialist
	E13F	Fire Support Specialist
	E13S	Field Artillery Surveyor
	E19D	Cavalry Scout
	E19K	M1 Armor Crewman
	E19Z	Armor Senior Sergeant
Special Force	es	
	E00D	Special Duty Assignment
	E18B	Special Forces Weapons Sergeant
	E18C	Special Forces Engineer Sergeant
	E18E	Special Forces Communications Sergeant
	E18F	Special Forces Assistant Operations and Intelligence Sergeant
	E18Z	Special Forces Senior Sergeant
Combat Medi	c	
	E68W	Health Care Specialist
	E91W	Health Care Specialist

eTable 3. International Classification of Diseases, Ninth Revision–Clinical Modification (ICD-9-CM) Codes Used to Identify Mental Disorders		
Included Mental Health Diagnoses	ICD-9-CM Codes	
Adjustment Disorder	309, .29, .3, .4, .82, .83, .89, .9	
Dysthymic Disorder/ Neurasthenia/ Depression NOS	296.82, .90, .99	
Depression NOS	300.4, .5	
	309.0, .1	
	311, .0, .1	
	313.1	
Major Depression	296.2, .20, .21, .22, .23, .24, .25, .26, .3, .30, .31, .32, .33, .34, .35, .36	
Bipolar Disorder	296.00, .01, .02, .03, .04, .05, .06, .10, .11, .12, .13, .14, .15, .16, .40, .41, .42, .43, .44, .45, .46, .50, .51, .52, .53, .54, .55, .56, .60, .61, .62, .63, .64, .65, .66, .7, .80, .81, .89	
	301.13	
Anxiety State/ Anxiety Disorder	300, .00, .01, .02, .09, .20, .21, .22, .23, .29, .3	
	309.21, .24, .28	
	313.0, .21, .22, .23	
Post-Traumatic Stress Disorder	309.81	
Attention-Deficit/Hyperactivity Disorder/	314.0, .00, .01, .1, .2, .8, .9	
Learning Disorders	315.00, .01, .02, .09, .1, .2, .3, .31, .32, .34, .39, .4, .5, .8, .9	
Conduct Disorder/ Oppositional Defiant	301.7	
Disorder	312.4, .8, .81, .82, .89, .9	
	313.81	
	V62.83	
Eating Disorders	307.1, .50, .51, .59	
Other Impulse Control Disorders	312.00, .01, .02, .03, .10, .11, .12, .13, .20, .21, .22, .23, .3, .30, .31, .32, .33, .34, .35, .39	
Alcohol Induced Mental Disorders/ Alcohol	291.0, .1, .2, .3, .4, .5, .8, .81, .82, .89, .9	
Dependence/ Alcohol Abuse	303.00, .01, .02, .03, .9, .90, .91, .92, .93	
	305, .0, .00, .01, .02, .03	

Drug Induced Mental Disorders	292
Non-Dependent Drug Abuse	305.2, .20, .21, .22, .23, .3, .30, .31, .32, .33, .4, .40, .41, .42, .43, .5, .50, .51, .52, .53, .6, .60, .61, .62, .63, .7, .70, .71, .72, .73, .8, .80, .81, .82, .83, .9, .90, .91, .92, .93
Drug dependence	304
Personality Disorders	301.0, .1, .10, .11, .12, .20, .21, .22, .3, .4, .50, .51, .59, .6, .8, .80, .81, .82, .83, .84, .89, .9
Non-Affective Psychosis	295.00, .01, .02, .03, .04, .05, .10, .11, .12, .13, .14, .15, .20, .21, .22, .23, .24, .25, .30, .31, .32, .33, .34, .35, .40, .41, .42, .43, .44, .45, .50, .51, .52, .53, .54, .60, .61, .62, .63, .64, .65, .70, .71, .72, .73, .74, .75, .80, .81, .82, .83, .84, .85, .90, .91, .92, .93, .94, .95
	297.0, .1, .2, .3, .8, .9
	298.0, .1, .2, .3, .4, .8, .9, .90
Somatoform/ Dissociative Disorders	300.10, .11, .12, .13, .14, .15, .16, .19, .6, .7, .80, .81, .82, .89
	306.0, .1, .2, .3, .4, .50, .51, .52, .53, .59, .6, .7, .8, .9
	307.54, .80, .81, .89
Organic Mental Disorders	290.0, .10, .11, .12, .13, .20, .21, .3, .40, .41, .42, .43, .8, .9
	293.0, .1, .81, .82, .83, .84, .89, .89, .9
	294.0, .1, .10, .11, .8, .9
	307.20, .21, .22, .23, .3
	310.0, .8, .9
	317
	318.0, .1, 2
	319
Sexual Disorders	302, .0, .1, .2, .3, .4, .50, .51, .52, .53, .6, .70, .71, .72, .73, .74, .75, .76, .79, .81, .82, .83, .84, .85, .89, .9
Sleep Disorders	307.4, .40, .41, .42, .43, .44, .45, .46, .47, .48, .49
Other Mental Disorders/ Mental Illness	292.85
	299.00, .01, .10, .80, .81, .90, .91
	300.9
	307.0, .52, .53, .6, .7, .9
	309.22
	310.1  © 2018 American Medical Association, All rights reserved.

	313.3, .82, .89, .9
	316
Traumatia Ctrans	200 0 4 2 2 4 0
Traumatic Stress	308, .0, .1, .2, .3, .4, .9
Stressors/ Adversities	V40.0, .00, .1, .2, .20, .3, .30, .9, .90
	V61, .0, .01, .02, .03, .04, .05, .06, .07, .08, .09, .2, .20, .21, .22, .23, .24, .29, .3, .4, .41, .42, .49, .8, .9
	V62, .0, .1, .1 0, .2, .20, .21, .22, .29, .3, .4, .5, .8, 80, .81, .810, .811, .812, .82, .89, .9, .90
	V69.4, .5, .9
Marital Problems	V61.1, .10, .11, .12
That it is a second	70111,110,111,112
Excluded Mental Health Diagnoses	ICD-9-CM Codes
Postconcussion Syndrome	310.2
Tobacco Use Disorder	305.1, .10, .11, .12, .13
Committee Ciana and III Defined	707
Symptoms, Signs, and III-Defined Conditions, Mental	797
Container, morna	798, .0, .1, .2, .9
	799, .0, .01, .02, .1, .2, .21, .22, .23, .24, .25, .29, .3, .4, .8, .81, .82, .89, .9
Prior History of Mental Disorders	V11.0, .1, .2, .3, .8, .80, .9, .90
	V66.3
	V67.3
	V01.0
Indicator of Impulsivity and Risky Behavior	V69.2, .3
Solf Damaging Pohavior	V60.9
Self-Damaging Behavior	V69.8

eTable 4. The National Corrections Reporting Program (NCRP) Offense Codes Used to Identify Categories of Criminal Perpetration and Victimization
I. Minor Physical Violent Crime (Minor Violence)
A. Simple Assault
15. Simple Assault
16.2 Simple Assault On A Public Officer
86. Simple Assault Of Military Official
20.2 Violent Offenses, Other – Simple Assault
B. Family-Related Simple Assault
89.1 Family-Related Simple Assault
C. Other Physical Violence
20.5 Violent Offenses, Other – Violent Offenses
II. Verbal Violent Crime (Minor Violence)
A. Blackmail/Extortion/Intimidation
17. Blackmail/Extortion/Intimidation
B. Rioting
56. Rioting
C. Harassment (Non-Sexual)
69.2 Invasion Of Privacy – Other Harassment
73.1 Other Public Order Offenses – Harassment
E. Sexual Verbal Violence
66.1 Morals/Decency – Sexual Harassment
69.1 Invasion Of Privacy – Sexual Harassment
III. Major Physical Violent Crime (Major Violence)
A. Murder/Homicide/Manslaughter
1. Murder
2. Unspecified Homicide
Voluntary/Nonnegligent Manslaughter
5. Manslaughter – Non-Vehicular
B. Kidnapping
6. Kidnapping
C. Aggravated Arson
22.1 Aggravated Arson
D. Aggravated Assault
14. Aggravated Assault
16.1 Aggravated Assault On A Public Officer
87. Aggravated Assault Of Military Official
20.1 Violent Offenses, Other – Aggravated Assault
E. Family-Related Aggravated Assault
64.2 Family Related Aggravated Assault
19. Child Abuse
F. Robbery

11. Armed Robbery 12. Unarmed Robbery
IV. Sexual Violent Crime (Major Violence)
A. Rape/Sodomy/Sexual Assault
7. Rape – Force
•
8. Rape – Statutory – No Force
13. Forcible Sodomy
9. Sexual Assault - Other
10. Lewd Act With Children
B. Family-Related Sexual Violence
89.3 Family-Related Sexual Offenses
V. Non-Violent Offenses
A. Reckless Endangerment
4. Manslaughter - Vehicular
18. Hit And Run Driving
32. Hit/Run Driving - Property Damage
61. Driving While Intoxicated
62. Driving Under The Influence (Dui)
63. Driving Under Influence (Dui) - Drugs
20.3 Violent Offenses, Other – Reckless Endangerment
B. Burglary
21. Burglary
C. Simple Arson
22.2 Simple Arson
D. Forgery/Fraud
24. Forgery/Fraud
E. Theft
23. Auto Theft
25. Grand Larceny – Theft Over \$200
26. Petty Larceny - Theft Under \$200
27. Larceny/Theft – Value Unknown
28. Embezzlement
28. Embezzlement 29. Stolen Property – Receiving
29. Stolen Property – Receiving 30. Stolen Property – Trafficking
29. Stolen Property – Receiving
29. Stolen Property – Receiving 30. Stolen Property – Trafficking
<ul><li>29. Stolen Property – Receiving</li><li>30. Stolen Property – Trafficking</li><li>33. Unauthorized Use Of Vehicle</li></ul>
29. Stolen Property – Receiving 30. Stolen Property – Trafficking 33. Unauthorized Use Of Vehicle 73.2 Public Order Offenses, Other – Theft  F. Property Offenses 31. Destruction Of Property
29. Stolen Property – Receiving 30. Stolen Property – Trafficking 33. Unauthorized Use Of Vehicle 73.2 Public Order Offenses, Other – Theft  F. Property Offenses
29. Stolen Property – Receiving 30. Stolen Property – Trafficking 33. Unauthorized Use Of Vehicle 73.2 Public Order Offenses, Other – Theft  F. Property Offenses 31. Destruction Of Property
29. Stolen Property – Receiving 30. Stolen Property – Trafficking 33. Unauthorized Use Of Vehicle 73.2 Public Order Offenses, Other – Theft  F. Property Offenses 31. Destruction Of Property 34. Trespassing
29. Stolen Property – Receiving 30. Stolen Property – Trafficking 33. Unauthorized Use Of Vehicle 73.2 Public Order Offenses, Other – Theft  F. Property Offenses 31. Destruction Of Property 34. Trespassing 35. Property Offenses - Other
29. Stolen Property – Receiving 30. Stolen Property – Trafficking 33. Unauthorized Use Of Vehicle 73.2 Public Order Offenses, Other – Theft  F. Property Offenses 31. Destruction Of Property 34. Trespassing 35. Property Offenses - Other  G. Commercialized Vice, Illegal Substances
29. Stolen Property – Receiving 30. Stolen Property – Trafficking 33. Unauthorized Use Of Vehicle 73.2 Public Order Offenses, Other – Theft  F. Property Offenses 31. Destruction Of Property 34. Trespassing 35. Property Offenses - Other  G. Commercialized Vice, Illegal Substances 36. Trafficking – Heroin

40. Trafficking - Drug Unspecified		
H. Commercialized Vice, Other		
70. Commercialized Vice		
72.1 Liquor Law Violations – Commercialized Vice		
I. Possession/Use/Other Violation Of Illegal Substance		
41. Possession/Use – Heroin		
42. Possession/Use – Cocaine Or Crack		
43. Possession/Use - Other Controlled Substances		
44. Possession/Use - Marijuana/Hashish		
45. Possession/Use - Drug Unspecified		
46. Heroin Violation Offense Unspecified		
47. Cocaine Or Crack Violation Offense Unspecified		
48. Controlled Substance – Offense Unspecified		
49. Marijuana/Hashish Violation - Offense Unspecified		
50. Drug Offenses - Violation/Drug Unspecified		
J. Court-Ordered Violations		
51. Escape From Custody		
52. Flight To Avoid Prosecution		
54. Parole Violation		
55. Probation Violations		
58. Contempt Of Court		
59. Offenses Against Courts, Legislatures And Commissions		
68. Obstruction - Law Enforcement		
K. Weapon Offense		
53. Weapon Offense		
L. Traffic Offense – Minor		
60. Traffic Offenses – Minor		
M. Drunkenness/Vagrancy/Disorderly Conduct		
65. Drunkenness/Vagrancy/Disorderly Conduct		
72.2 Liquor Law Violations, Other		
N. Military Specific Non-Violent Offenses		
88. Disobey Army Orders		
89. AWOL/Desertion/Treason		
O. Family-Related Non-Violent Offenses		
58. Family Related Offenses – Contempt Of Court		
64.1 Family Related Offenses – Reckless Endangerment		
64.3 Family Related Offenses – Domestic Disturbance		
64.4 Family Related Offenses – Custody Offenses		
66.2 Family Related Offenses – Morals/Decency – Other Moral/Decency Offense		
P. Other Non-Violent Offenses		
20.4 Violent Offenses, Other – Non-Violent Offenses		
57. Habitual Offender		
66.2 Morals/Decency – Other Moral/Decency Offense		
67. Immigration Violations		
69.3 Invasion Of Privacy –Other		

71. Contributing To The Delinquency Of A Minor
73.4 All Other Public Order Offenses
74. Bribery And Conflict Of Interest
75. Juvenile Offenses
76. Felony – Unspecified
77. Misdemeanor Unspecified
78. Other/Unknown

**eTable 5.** List of Family Violence-Related Data Sources Included in the 2004-2009 Army STARRS Historical Administrative Data Study (HADS)

ACMIS CIMS / ACI2	Includes legal records of aggravated and/or simple assault, emotional and/or sexual abuse, and family-related non-violent offenses (see eTable 6)  Army Court Martial Management Information Systems (ACMIS). System provides for the efficient collection, manipulation and presentation of data associated with Army courts martial. System includes data on docket entries; the accused; alleged offenses; trials and decisions; and sentences.  Criminal Investigation Division Information Management System (CIMS) / Automated Criminal Investigation/Criminal Intelligence (ACI2). Event-level crime record database.
CIMS / ACI2	violent offenses (see eTable 6)  Army Court Martial Management Information Systems (ACMIS). System provides for the efficient collection, manipulation and presentation of data associated with Army courts martial. System includes data on docket entries; the accused; alleged offenses; trials and decisions; and sentences.  Criminal Investigation Division Information Management System (CIMS) / Automated Criminal Investigation/Criminal Intelligence (ACI2). Event-level crime record database.
CIMS / ACI2	<ul> <li>(ACMIS). System provides for the efficient collection, manipulation and presentation of data associated with Army courts martial. System includes data on docket entries; the accused; alleged offenses; trials and decisions; and sentences.</li> <li>Criminal Investigation Division Information Management System (CIMS) / Automated Criminal Investigation/Criminal Intelligence (ACI2). Event-level crime record database.</li> </ul>
	System (CIMS) / Automated Criminal Investigation/Criminal Intelligence (ACI2). Event-level crime record database.
	Separate system from ASCRC.
CIMS / ASCRC (OIF)	Criminal Investigation Division Information Management System (CIMS) / Automated System Crime Record Center (ASCRC). Receives, maintains, accounts for, disseminates information from, and disposes of Army crime records; retrieves and correlates data and statistics from the records and provides to authorized recipients; coordinates automation of crime records data and information; and serves as functional proponent for the electronic imaging of crime records.
COPS / MPRS	Centralized Operations Police Suite (COPS) / Military Police Reporting System (MPRS). Centralized database that contains subsystems supporting the Military Police Corps Army-wide. Contains information included in law enforcement reports.
SADMS	Sexual Assault Data Management System (SADMS). Centralized repository of relevant data regarding the entire lifecycle of sexual assault cases, involving victims and/or alleged offenders.
	This is a victim-based registry documenting spouse and child abuse events involving Army service members. Substantiated incidents or evidence of an incident in the ACR include physical, sexual, emotional, and neglect subtypes.
995.80	Unspecified Adult Maltreatment
995.81	Adult Physical Abuse
995.82	Adult Emotional / Psychological Abuse
995.83	Adult Sexual Abuse
995.84	Adult Neglect (Nutritional)
995.85	Other Adult Abuse and Neglect
E967.3	Perpetrator of Adult and Child Abuse by Spouse or Partner
V61.11	Counseling for Victim of Spouse and Partner Abuse
	Counseling for Perpetrator of Spousal and Partner Abuse
	995.80 995.81 995.82 995.83 995.84 995.85 E967.3

V61.22	Counseling for Perpetrator of Parent Child Abuse
V62.83	Counseling for Perpetrator of Physical/Sexual Abuse

## **eTable 6.** The National Corrections Reporting Program (NCRP) Offense Codes Used to Identify Family Violence

- I. Major Physical Violence
  - E.) Family-Related Aggravated Assault
    - 64.2 Family-related aggravated assault

580 Cruelty to Spouse

120 Domestic Violence (other than verbal)

19. Child Abuse

170 Child Abuse, except offenses specified sexual in nature

170 Cruelty to Juvenile

171 Child Abuse, Attempted

172 Child Abuse, Conspiracy

Aggravated Abandonment

Child Neglect involving cruelty OR first and second degree

Assault on a child under the age of 16

Abuse of grandchildren

- II. Minor Physical Violence
  - B.) Family-Related Simple Assault
    - 89.1 Family-related simple assault

Spouse/family/domestic assault, unspecified degree

Domestic dispute, unspecified (different from domestic disturbance)

- III. Verbal Violence
  - D.) Family-Related Emotional Abuse

89.2 Family-related emotional abuse

Emotional abuse, of spouse/child/family member

- IV. Sexual Violence
  - B.) Family-Related Sexual Violence

89.3 Family-related sexual offenses

Incest with a child (age < 18 years)

Rape of family member/spouse

Sexual abuse of family member/spouse

- V. Non-violent Offenses
  - O.) Family-Related Non-Violence Offenses
    - 58. Family-related offenses- Contempt of court

530 Violation of protective order (family-related)

530 Violation of restraining order (family-related)

64.1 Family-related offenses- Reckless endangerment

580 Abandonment (except when specified Aggravated Abandonment)

580 Desertion

Endangerment/mistreatment of dependent adult

580 Failure to provide

580 Non-support, family-related offenses

580 Non-support of spouse or children

9999 Endangerment/mistreatment of spouse

Spouse neglect

180 Child endangerment

Child neglect

64.3 Family-related offenses- Domestic disturbance

Domestic/family disturbance (verbal or unspecified)

"Domestic," unspecified

64.4 Family-related offenses- Custody offenses

580 Custodial interference

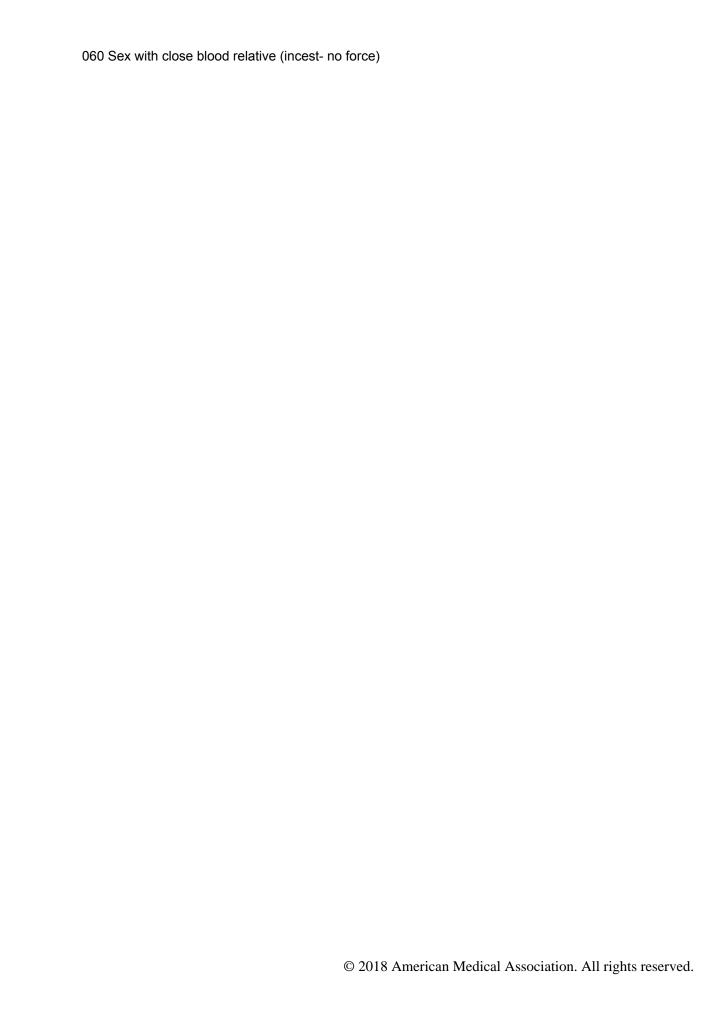
580 Interference with custody

66.2 Family-related offenses- Morals/Decency- Other Moral/Decency offense

600 Adultery

600 Bigamy

600 Incest (with person 18 years of age or older, or unspecified age)



**eTable 7.** Multivariable Associations of Sociodemographic, Service-Related, and Mental Health Variables With Suicide Attempt in the Total Sample of Regular Army Enlisted Soldiers<sup>1</sup>

	OR	95% CI	Cases (N)	Total (N)2	Rate <sup>3</sup>	Pop %⁴	SRE⁵
Socio-Demographic				, ,			
Predictors							
Gender							
Male	1.0	_	7,214	26,507,814	327	86.3	323
Female	2.3*	(2.2–2.5)	2,436	4,207,436	695	13.7	753
$\chi^2$ 1		1,083.8*					
Current Age		•					
< 21	1.4*	(1.2–1.6)	3,315	4,624,915	860	15.1	449
21–24	1.1*	(1.0–1.3)	3,499	9,230,699	455	30.1	371
25–29	1.0	(0.9–1.2)	1,756	7,119,756	296	23.2	337
30–34	1.0	_	635	4,239,435	180	13.8	324
35–39	0.9*	(0.8–1.0)	300	3,344,500	108	10.9	279
40+	0.9	(0.7–1.1)	145	2,155,945	81	7.0	277
$\chi^2_{5}$	0.0	44.1*	1.0	2,100,010	0.		
Race/Ethnicity							
White	1.0	_	6,808	18,358,008	445	59.8	418
Black	0.7*	(0.6–0.7)	1,415	6,972,415	244	22.7	287
Hispanic	0.7	(0.7–0.8)	979	3,557,179	330	11.6	322
Asian	0.8	(0.6–0.8)	286	1,217,486	282	4.0	297
Other	1.0	(0.0–0.8)	162	610,162	319	2.0	422
$\chi^2_4$	1.0	217.8*	102	010,102	319	2.0	422
		217.0					
Education	4.0*	(4.7.4.0)	0.000	2.070.000	004	40.0	F00
< High School <sup>6</sup>	1.8*	(1.7–1.9)	2,888	3,878,088	894	12.6	593
High School	1.0	(0.7.00)	6,380	23,503,980	326	76.5	333
Some College	0.8*	(0.7–0.9)	191	1,704,591	134	5.5	257
≥ College	0.7*	(0.6–0.8)	191	1,628,591	141	5.3	232
$\chi^2_3$		679.8*					
Marital Status							
Never Married	0.9*	(0.8–0.9)	5,441	12,589,441	519	41.0	357
Currently Married	1.0		3,974	16,814,774	284	54.7	407
Previously Married	1.0	(0.9–1.1)	235	1,311,035	215	4.3	406
$\chi^2_{\ 2}$		31.6*					
Service-Related Predictors							
Age at Army Entry							
< 21	1.0	(1.0–1.1)	6,471	19,095,671	407	62.2	382
21–24	1.0	-	2,139	7,531,739	341	24.5	366
25+	1.0	(0.9–1.1)	1,040	4,087,840	305	13.3	368
$\chi^2_{\ 2}$		1.6					
Time in Service							
1 Year	2.7*	(2.4–3.1)	3,400	4,502,800	906	14.7	676
2 Years	1.9*	(1.7–2.1)	2,016	4,057,816	596	13.2	467
3–4 Years	1.5*	(1.4–1.6)	2,278	6,819,878	401	22.2	358
5–10 Years	1.0	_	1,542	8,322,742	222	27.1	246
> 10 Years	0.5*	(0.4-0.5)	414	7,012,014	71	22.8	114
$\chi^2_4$		408.0*		, ,			
Deployment Status					1		
Never Deployed	2.2*	(2.1–2.4)	5,894	12,421,294	569	40.4	395
Currently Deployed	1.0		940	7,173,140	157	23.4	179
Previously Deployed	2.9*	(2.7–3.2)	2,816	1,112,081	304	36.2	520
$\chi^2_2$		771.9*	_,5.0	.,2,001	- 551		320

Delayed Promotion							
Late Promotion ≤ 2 Months	2.4*	(2.1–2.7)	308	238,308	1,551	0.8	921
Late Promotion > 2 Months	2.0*	(1.8–2.2)	1,267	1,129,067	1,347	3.7	763
On Schedule Promotion	1.0	_	4,243	6,795,843	749	22.1	385
Not Relevant Due to Rank <sup>7</sup>	0.8*	(0.7-0.9)	3,832	22,552,032	204	73.4	305
$\chi^2_3$		582.4*					
Demotion							
Demoted in Past Year	1.8*	(1.7–2.0)	1,078	1,034,278	1,251	3.4	632
Demoted Before Past Year	1.4*	(1.3–1.6)	625	2,211,625	339	7.2	498
Never Demoted	1.0	_	7,947	27,469,347	347	89.4	351
$\chi^2_2$		217.9*					
Military Occupation							
Combat Arms	1.2*	(1.1–1.3)	2,506	7,159,106	420	23.3	419
Special Forces	0.3*	(0.2–0.5)	16	369,016	52	1.2	114
Combat Medic	1.4*	(1.3–1.5)	682	1,470,882	556	4.8	504
Other	1.0	_	6,446	21,716,246	356	70.7	356
$\chi^2_3$		130.4*					
Mental Health Predictors							
Previous Mental Health							
Diagnosis							
Yes	6.2*	(5.9–6.5)	6,143	10,708,143	688	34.9	1,082
No	1.0	_	3,507	20,007,107	210	65.1	176
$\chi^2_{1}$	į	5,620.3*	,	,			
Total  The sample of Regular Army enlisted of	_		9,650	30,715,250	377.0	100	

<sup>&</sup>lt;sup>1</sup>The sample of Regular Army enlisted soldiers (n=9,650 cases, 153,528 control person-months) is a subset of the total Regular Army sample (n=193,617 person-months) from the Army STARRS Historical Administrative Data Study (HADS). Control person-months were assigned a weight of 200 to adjust for under-sampling.

<sup>&</sup>lt;sup>2</sup>Total includes both cases (i.e., soldiers with a suicide attempt) and control person-months.

<sup>&</sup>lt;sup>3</sup>Rate per 100,000 person-years, calculated based on n₁/n₂, where n₁ is the unique number of soldiers within each category and n₂ is the annual number of person-*years*, not person-*months*, in the population (n=3.08 million).

<sup>&</sup>lt;sup>4</sup>Pop % = percent of the total population of enlisted soldiers.

<sup>&</sup>lt;sup>5</sup>SRE = Standardized risk estimates (number of soldiers with a suicide attempt per 100,000 person-years) were calculated assuming other predictors were at their sample-wide means.

<sup>&</sup>lt;sup>6</sup>< High School includes: General Educational Development credential (GED), home study diploma, occupational program certificate, correspondence school diploma, high school certificate of attendance, adult education diploma, and other non-traditional high school credentials.

<sup>&</sup>lt;sup>7</sup>Soldiers above the rank of E4 are not promoted on a set schedule.

<sup>\*</sup>p < 0.05

**eTable 8.** Counts and Rates of Suicide Attempts by Sociodemographic and Service-Related Variables Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis<sup>1</sup>

				History	of Menta	l Health Diagno	osis					
		No Pre Mental Healtl (n = 10	h Diagnosi	İs		Any Previous Mental Health Diagnosis (n = 59,653)						
	Cases (n)	Total (n) <sup>2</sup>	Rate <sup>3</sup>	Pop % <sup>4</sup>	SRE⁵	Cases (n)	Total (n) <sup>2</sup>	Rate <sup>3</sup>	Pop % <sup>4</sup>	SRE⁵		
Socio-demographic Predictors												
Gender												
Male	898	17,707,809	177	88.5	177	4,605	8,800,005	628	82.2	637		
Female	2,609	2,299,298	469	11.5	459	1,538	1,908,138	967	17.8	907		
Current Age												
< 21	1,736	3,979,936	523	19.9	246	1,579	644,979	2,938	6.0	984		
21–24	1,106	6,461,906	205	32.3	191	2,393	2,768,793	1,037	25.9	729		
25–29	437	4,219,837	124	21.1	180	1,319	2,899,919	546	27.1	583		
30–34	141	2,356,941	72	11.8	169	494	1,882,494	315	17.6	524		
35–39	62	1,813,662	41	9.1	160	238	1,530,838	187	14.3	433		
40+	25	1,174,825	26	5.9	150	120	981,120	147	9.2	430		
Race/Ethnicity							·					
White	2,477	12,233,677	243	61.1	229	4,331	6,124,331	849	57.2	747		
Black	478	4,194,478	137	21.0	164	937	2,777,937	405	25.9	540		
Hispanic	389	2,369,189	197	11.8	191	590	1,187,990	596	11.1	620		
Asian	115	353,648	161	4.3	220	171	361,371	568	3.4	725		
Other	48	856,115	163	1.8	171	114	256,514	533	2.4	615		
Education												
< High School <sup>6</sup>	1,130	2,637,130	514	13.2	358	1,758	1,240,958	1,700	11.6	929		
High School	2,256	15,295,656	177	76.5	180	4,124	8,208,324	603	76.7	633		
Some College	47	995,647	57	5.0	121	144	708,944	244	6.6	553		
≥ College	74	1,078,674	82	5.4	123	117	549,917	255	5.1	453		
Marital Status												
Never Married	2,428	9,572,828	304	47.8	206	3,013	3,016,613	1,199	28.2	691		
Currently Married	1,052	9,844,252	128	49.2	222	208	6,970,522	503	65.1	686		
Previously Married	27	590,027	55	2.9	164	2,922	721,008	346	6.7	676		
Service-Related Predictors												
Age at Army Entry												
< 21	2,436	12,466,436	235	62.3	221	4,035	6,629,235	730	61.9	664		
21–24	711	4,896,111	174	24.5	189	1,428	2,635,628	650	24.6	720		

25+	360	2,644,560	163	13.2	189	680	1,443,280	565	13.5	793
Time in Service										
1 Year	2,091	4,179,491	600	20.9	446	1,309	323,309	4,859	3.0	2,942
2 Years	652	3,234,052	242	16.2	217	1,364	823,764	1,987	7.7	1,388
3–4 Years	501	4,550,901	132	22.7	132	1,777	2,268,977	940	21.2	736
5–10 Years	208	4,369,208	57	21.8	66	1,334	3,953,534	405	36.9	412
> 10 Years	55	3,673,455	18	18.4	27	359	3,338,559	129	31.2	195
Deployment Status										
Never Deployed	2,714	9,193,714	354	46.0	224	3,180	3,227,580	1,182	30.1	737
Currently Deployed	305	4,748,505	77	23.7	114	635	2,424,635	314	22.6	337
Previously Deployed	488	6,064,888	97	30.3	256	2,328	5,055,928	553	47.2	855
Delayed Promotion										
Late Promotion ≤ 2 Months	103	171,503	721	0.9	442	205	66,805	3,682	0.6	1,386
Late Promotion > 2 Months	211	563,011	450	2.8	350	1,056	566,056	2,239	5.3	1,086
On Schedule Promotion	2,358	6,013,158	471	30.1	215	1,885	782,685	2,890	7.3	836
Not Relevant Due to Rank <sup>7</sup>	835	13,259,435	76	66.3	172	2,997	9,292,597	387	86.8	540
Demotion										
Demoted in Past Year	188	489,388	461	2.4	443	890	544,890	1,960	5.1	1,234
Demoted Before Past Year	82	970,482	101	4.9	265	543	1,241,143	525	11.6	757
Never Demoted	3,237	18,547,237	209	92.7	203	4,710	8,922,110	634	83.3	629
Military Occupation										
Combat Arms	948	4,951,348	230	24.7	233	1,558	2,207,758	847	20.6	779
Special Forces	6	282,206	26	1.4	67	10	86,810	138	0.8	369
Combat Medic	236	861,836	329	4.3	276	446	609,046	879	5.7	848
Other	2,317	13,911,717	200	69.5	199	4,129	7,804,529	635	72.9	648
Total  The sample of Regular Army enlisted soldi	3,507	20,007,107	201	100	_	6,143	10,708,143	688	100	_

<sup>&</sup>lt;sup>2</sup>Total includes both cases (i.e., soldiers with a suicide attempt) and control person-months.

<sup>&</sup>lt;sup>3</sup>Rate per 100,000 person-years, calculated based on n₁/n₂, where n₁ is the unique number of soldiers within each category and n₂ is the annual number of person-*years*, not person-*months*, in the population (n=3.08 million).

<sup>&</sup>lt;sup>4</sup>Pop % = percent of the population of enlisted soldiers within each stratum (i.e., with or without a history of mental health diagnosis).

<sup>&</sup>lt;sup>5</sup>SRE = Standardized risk estimates (number of soldiers with a suicide attempt per 100,000 person-years) were calculated assuming other predictors were at their sample-wide means. The SREs for each predictor (sections I-V) were calculated using separate logistic regression analyses that adjusted for socio-demographics (gender, current age, race/ethnicity, education, marital status) and service-related variables (age at Army entry, time in service [1 year, 2 years, 3-4 years, 5-10 years], deployment status [never, currently, or previously deployed], delayed promotion, demotion, military occupation [combat arms, special forces, combat medic, other]). Models also included a dummy predictor variable for calendar month and year to control for secular trends.

<sup>6&</sup>lt; High School includes: General Educational Development credential (GED), home study diploma, occupational program certificate, correspondence school diploma, high school certificate of attendance, adult education diploma, and other non-traditional high school credentials.

<sup>&</sup>lt;sup>7</sup>Soldiers above the rank of E4 are not promoted on a set schedule.

**eTable 9.** Multivariable Associations of Marriage Start/End Recency With Suicide Attempt in the Total Sample of Regular Army Enlisted Soldiers<sup>1,2</sup>

	OR	95% CI	Cases (N)	Total (M) <sup>3</sup>	Rate⁴	Pop %⁵	SRE <sup>6</sup>
I. Marriage Start Recency							
1 Month Ago	0.5*	(0.4-0.7)	44	213,844	247	0.7	88
2–3 Months Ago	1.1	(0.9-1.2)	217	454,217	573	1.5	195
4–12 Months Ago	1.3*	(1.2-1.4)	978	1,993,978	589	6.5	236
> 12 Months Ago	1.1*	(1.1-1.2)	2,735	14,152,735	232	46.1	203
Not Currently Married <sup>7</sup>	1.0		5,676	13,900,476	490	45.3	890
$\chi^2_4$		84.6*					
II. Marriage End Recency							
1 Month Ago	1.1	(0.6-1.9)	11	47,011	281	0.2	279
2–3 Months Ago	1.1	(0.7-1.6)	23	92,423	299	0.3	275
4–12 Months Ago	1.2	(1.0-1.6)	73	297,073	295	1.0	314
> 12 Months Ago	1.1	(0.9-1.3)	128	874,528	176	2.8	283
Currently Married	1.1*	(1.1-1.2)	3,974	16,814,774	284	54.7	314
Never Married	1.0		5,441	12,589,441	519	41.0	448
$\chi^2_{5}$		32.3*					
Total	_	_	9,650	30,715,250	377.0	100	_

<sup>&</sup>lt;sup>2</sup>Each predictor (sections I & II) was examined in a separate logistic regression model that adjusted for socio-demographics (gender, current age, race/ethnicity, education) and service-related variables (age at Army entry, time in service [1 year, 2 years, 3-4 years, 5-10 years, >10 years], deployment status [never, currently, or previously deployed], delayed promotion, demotion, military occupation [combat arms, special forces, combat medic, other]). Models also included a dummy predictor variable for calendar month and year to control for secular trends. The marital status variable used in other models was removed for these analyses.

<sup>&</sup>lt;sup>3</sup>Total includes both cases (i.e., soldiers with a suicide attempt) and control person-months.

<sup>&</sup>lt;sup>4</sup>Rate per 100,000 person-years, calculated based on n₁/n₂, where n₁ is the unique number of soldiers within each category and n₂ is the annual number of person-*years*, not person-*months*, in the population (n=3.08 million).

<sup>&</sup>lt;sup>5</sup>Pop % = percent of the total population of enlisted soldiers.

<sup>&</sup>lt;sup>6</sup>SRE = Standardized risk estimates (number of soldiers with a suicide attempt per 100,000 person-years) were calculated assuming other predictors were at their sample-wide means.

<sup>&</sup>lt;sup>7</sup>Includes soldiers who were never married or previously married.

<sup>\*</sup>p < 0.05

**eTable 10.** Counts and Rates of Suicide Attempts by Marriage Start/End Recency Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis<sup>1</sup>

				History	of Mental	<b>Health Diagno</b>	sis			
		No Pro Mental Heal (n = 10	Any Previous  Mental Health Diagnosis  (n = 59,653)							
	Cases (n)	Total (n) <sup>2</sup>	Rate <sup>3</sup>	Pop %⁴	SRE⁵	Cases (n)	Total (n) <sup>2</sup>	Rate <sup>3</sup>	Pop %⁴	SRE⁵
I. Marriage Start Recency										
1 Month Ago	24	160,224	180	0.8	124	20	53,620	448	0.5	282
2–3 Months Ago	114	334,114	409	1.7	278	103	120,103	1,029	1.1	594
4–12 Months Ago	324	1,369,324	284	6.8	244	654	624,654	1,256	5.8	836
> 12 Months Ago	590	7,980,590	89	39.9	211	2,145	6,172,145	417	57.6	666
Not Currently Married <sup>6</sup>	2,455	10,162,855	290	50.8	206	3,221	3,737,621	1,034	34.9	689
II. Marriage End Recency <sup>7</sup>										
1 Month Ago	_	21,802	110	0.1	195	9	25,109	430	0.2	592
2–3 Months Ago	_	44,002	55	0.2	98	21	48,421	520	0.5	700
4–12 Months Ago	_	131,609	82	0.7	182	64	165,464	464	1.5	704
> 12 Months Ago	14	392,614	43	2.0	176	114	481,914	284	4.5	673
Currently Married	1,052	9,844,252	128	49.2	224	2,922	6,970,522	503	65.1	691
Never Married	2,428	9,572,828	304	47.8	206	3,013	3,016,613	1,199	28.2	687
Total	3,507	20,007,107	210	100	_	6,143	10,708,143	688	100	_

<sup>&</sup>lt;sup>1</sup>The sample of Regular Army enlisted soldiers (n=9,650 cases, 153,528 control person-months) is a subset of the total Regular Army sample (n=193,617 person-months) from the Army STARRS Historical Administrative Data Study (HADS). Control person-months were assigned a weight of 200 to adjust for under-sampling.

<sup>&</sup>lt;sup>2</sup>Total includes both cases (i.e., soldiers with a suicide attempt) and control person-months.

<sup>&</sup>lt;sup>3</sup>Rate per 100,000 person-years, calculated based on n₁/n₂, where n₁ is the unique number of soldiers within each category and n₂ is the annual number of person-*years*, not person-*months*, in the population (n=3.08 million).

<sup>&</sup>lt;sup>4</sup>Pop % = percent of the population of enlisted soldiers within each stratum (i.e., with or without a history of mental health diagnosis).

<sup>&</sup>lt;sup>5</sup>SRE = Standardized risk estimates (number of soldiers with a suicide attempt per 100,000 person-years) were calculated assuming other predictors were at their sample-wide means. The SREs for each predictor (sections I & II) were calculated using separate logistic regression analyses that adjusted for socio-demographics (gender, current age, race/ethnicity, education) and service-related variables (age at Army entry, time in service [1 year, 2 years, 3-4 years, 5-10 years, >10 years], deployment status [never, currently, or previously deployed], delayed promotion, demotion, military occupation [combat arms, special forces, combat medic, other]). Models also included a dummy predictor variable for calendar month and year to control for secular trends. The marital status variable used in other models was removed for these analyses.

<sup>&</sup>lt;sup>6</sup>Includes soldiers who were never married or previously married.

<sup>&</sup>lt;sup>7</sup>Some N's not reported due to a small number of cases.

**eTable 11.** Multivariable Associations of Outpatient Physical and Injury-Related Healthcare Visits With Suicide Attempt in the Total Sample of Regular Army Enlisted Soldiers<sup>1,2</sup>

the Total Cample of Regular Army Emisted							
	OR	95% CI	Cases ( <i>N</i> )	Total (M) <sup>3</sup>	Rate⁴	Pop %⁵	SRE <sup>6</sup>
I. Days with Outpatient Physical Healthcare Visit in Past 2 Months							
0	1.0	_	1,778	12,874,178	166	41.9	192
1	1.4*	(1.3– 1.5)	1,440	6,377,040	271	20.8	275
2–4	2.1*	(2.0– 2.2)	3,094	8,101,494	458	26.4	401
5–7	4.2*	(3.9– 4.5)	1,647	2,088,447	972	6.6	799
8+	6.9*	(6.4– 7.4)	1,691	1,329,091	1,527	4.3	1,273
$\chi^2_4$	3,	652.0*					
II. Previous Injury-Related Healthcare Visit <sup>7</sup>							
Any Inpatient Visit for Previous Injury	5.6*	(5.2– 6.1)	806	1,043,406	927	3.4	1,243
Only Outpatient Visit for Previous Injury	2.0*	(1.9– 2.1)	6,612	18,721,012	424	61.0	457
No Visit for Previous Injury	1.0	_	2,232	10,950,832	245	35.7	213
$\chi^2_2$	1,	630.5*					
III. Recency of Last Injury-Related Outpatient Healthcare Visit <sup>7</sup>							
1 Month	4.1*	(3.8– 4.3)	2,740	3,404,940	966	11.1	819
2 Months	3.3*	(3.1– 3.6)	1,102	1,855,302	713	6.0	645
3 Months	2.8*	(2.6– 3.1)	674	1,384,274	584	4.5	564
4+ Months	2.0*	(1.9– 2.1)	2,971	11,688,371	305	38.1	392
No Outpatient Visit for Injury	1.0	_	2,163	12,382,363	210	40.3	184
$\chi^2_4$	2,	450.5*					
IV. Recency of Last Injury-Related Inpatient Healthcare Visit <sup>7</sup>							
1 Month	9.7*	(8.4– 11.2)	191	56,191	4,079	0.2	3,253
2 Months	5.5*	(4.4 <del>-</del> 6.9)	80	49,080	1,956	0.2	1,968
3 Months	5.1*	(4.1– 6.3)	81	45,081	2,156	0.1	1,855
4+ Months	2.2*	(2.0 <del>-</del> 2.5)	454	893,054	610	2.9	823
No Inpatient Visit for Injury	1.0	542.5*	8,844	29,671,844	358	96.6	355
$\chi^2_4$	Ι,	J. J. 4. Z. J					
V. Any Previous Combat Injury							
Yes	1.4*	(1.2– 1.7)	163	501,163	390	1.6	534

No	1.0	-	9,487	30,214,087	377	98.4	375
$\chi^2_1$	2	20.5*					
Total	_	_	9,650	30,715,250	377	100	_

<sup>3</sup>Total includes both cases (i.e., soldiers with a suicide attempt) and control person-months.

<sup>5</sup>Pop % = percent of the total population of enlisted soldiers.

p < 0.05

<sup>&</sup>lt;sup>2</sup>Each predictor (sections I-V) was examined in a separate logistic regression model that adjusted for socio-demographics (gender, current age, race/ethnicity, education, marital status) and service-related variables (age at Army entry, time in service [1 year, 2 years, 3-4 years, 5-10 years, >10 years], deployment status [never, currently, or previously deployed], delayed promotion, demotion, military occupation [combat arms, special forces, combat medic, other]). Models also included a dummy predictor variable for calendar month and year to control for secular trends.

<sup>&</sup>lt;sup>4</sup>Rate per 100,000 person-years, calculated based on n₁/n₂, where n₁ is the unique number of soldiers within each category and n₂ is the annual number of person-*years*, not person-*months*, in the population (n=3.08 million).

<sup>&</sup>lt;sup>6</sup>SRE = Standardized risk estimates (number of soldiers with a suicide attempt per 100,000 person-years) were calculated assuming other predictors were at their sample-wide means.

<sup>&</sup>lt;sup>7</sup>These previous iniuries were not suicide-related according to information available in the administrative records.

**eTable 12.** Counts and Rates of Suicide Attempts by Outpatient Physical and Injury-Related Healthcare Visits Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis<sup>1</sup>

			His	tory of N	/lental H	ealth Diag	nosis			
		No Prev Mental Health (n = 103,	ous Diagnos			Jan. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Any Pr Mental Healt		osis	
	Cases (n)	Total (n) <sup>2</sup>	Rate <sup>3</sup>	Pop % <sup>4</sup>	SRE <sup>5</sup>	Cases (n)	Total (n) <sup>2</sup>	Rate <sup>3</sup>	Pop % <sup>4</sup>	SRE <sup>5</sup>
I. Days with an Outpatient Physical Healthcare Visit in the Past 2 Months				70		(,			70	
0	976	9,167,176	128	45.8	155	802	3,707,002	260	34.6	320
1	616	4,258,416	174	21.3	177	824	2,118,624	467	19.8	494
2–4	1,194	5,017,594	286	25.1	231	1,900	3,083,900	739	28.8	673
5–7	439	1,052,439	501	5.3	269	1,208	981,008	1,478	9.2	1,156
8+	282	511,482	662	2.6	515	1,409	817,609	2,068	7.6	1,602
II. Previous Injury-Related Healthcare Visit <sup>6</sup>										
Any Inpatient Visit for Previous Injury	74	420,674	211	2.1	409	732	622,732	1,411	5.8	1,562
Only Outpatient Visit for Previous Injury	2,110	11,005,310	230	55.0	269	4,502	7,715,702	700	72.1	692
No Visit for Previous Injury	1,323	8,581,123	185	42.9	153	909	2,369,709	460	22.1	466
III. Recency of Last Injury-Related Outpatient Healthcare Visit <sup>6</sup>										
1 Month	803	1,820,803	529	9.1	426	1,937	1,584,137	1,467	14.8	1,182
2 Months	324	1,030,124	377	5.1	337	778	852,178	1,131	7.7	966
3 Months	213	792,813	322	4.0	313	461	591,461	935	5.5	864
4+ Months	855	6,866,055	149	34.3	233	2,116	4,822,316	527	45.0	619
No Outpatient Visit for Injury	1,312	9,497,312	166	47.5	139	851	2,885,051	354	26.9	337
IV. Recency of Last Injury-Related Inpatient Healthcare Visit <sup>6, 7</sup>										
1 Month	15	23,615	762	0.1	669	176	32,576	6,483	0.3	3,992
2 Months	_	21,207	396	0.1	485	73	27,873	3,143	0.3	2,574
3 Months	_	21,606	333	0.1	333	75	23,475	3,834	0.2	2,559
4+ Months	46	354,246	156	1.8	340	408	538,808	909	5.0	1,102
No Inpatient Visit for Injury	3,433	19,586,433	210	97.9	208	5,411	10,085,411	644	94.2	640
V. Any Previous Combat Injury										
Yes	21	202,821	124	1.0	337	142	298,342	571	2.8	647
No	3,486	19,804,286	211	99.0	210	6,001	10,409,801	692	97.2	689

Total	3,507	20,007,107	210	100	-	6,143	10,708,143	688	100	_

<sup>2</sup>Total includes both cases (i.e., soldiers with a suicide attempt) and control person-months.

<sup>4</sup>Pop % = percent of the population of enlisted soldiers within each stratum (i.e., with or without a history of mental health diagnosis).

<sup>6</sup>These previous injuries were not suicide-related according to information available in the administrative records.

<sup>7</sup>Some N's not reported due to a small number of cases.

<sup>&</sup>lt;sup>3</sup>Rate per 100,000 person-years, calculated based on n₁/n₂, where n₁ is the unique number of soldiers within each category and n₂ is the annual number of person-*years*, not person-*months*, in the population (n=3.08 million).

<sup>&</sup>lt;sup>5</sup>SRE = Standardized risk estimates (number of soldiers with a suicide attempt per 100,000 person-years) were calculated assuming other predictors were at their sample-wide means. The SREs for each predictor (sections I-V) were calculated using separate logistic regression analyses that adjusted for socio-demographics (gender, current age, race/ethnicity, education, marital status) and service-related variables (age at Army entry, time in service [1 year, 2 years, 3-4 years, 5-10 years], deployment status [never, currently, or previously deployed], delayed promotion, demotion, military occupation [combat arms, special forces, combat medic, other]). Models also included a dummy predictor variable for calendar month and year to control for secular trends.

**eTable 13.** Multivariable Associations of Crime Victimization/Perpetration and Family Violence With Suicide Attempt in the Total Sample of Regular Army Enlisted Soldiers<sup>1,2</sup>

	OR	95% CI	Cases (N)	Total (M)3	Rate⁴	Pop %⁵	SRE <sup>6</sup>
I. Crime Victimization <sup>7</sup>						_	
Major Violent Crime	2.3*	(2.0-2.6)	249	231,449	1,291	0.8	841
Minor Violent Crime	1.7*	(1.5–2.0)	172	304,172	679	1.0	615
Non-Violent Crime	1.3*	(1.2–1.4)	489	1,587,689	370	5.2	456
No Crime Victimization	1.0	-	8,740	28,591,940	367	93.1	365
$\chi^2_3$		212.7*					
II. Crime Perpetration <sup>7</sup>							
Major Violent Crime	3.2*	(2.9-3.6)	329	453,929	870	1.5	1,031
Minor Violent Crime	2.5*	(2.3-2.9)	308	445,908	829	1.5	828
Non-Violent Crime	2.1*	(2.0-2.3)	1,848	2,921,248	759	9.5	691
No Crime Perpetration	1.0	ı	7,165	26,894,165	320	87.6	322
$\chi^2_3$		1,030.2*					
III. Family Violence <sup>8</sup>							
Yes	2.6*	(2.4–2.8)	575	887,775	777	2.9	940
No	1.0	(2.4-2.0)	9,075	29,827,475	365	97.1	363
γ <sup>2</sup> <sub>1</sub>	1.0	450.4*	5,075	20,021,710	505	57.1	300
λ 1		700.7					
Total	_	_	9,650	30,715,250	377.0	100	_

<sup>1</sup>The sample of Regular Army enlisted soldiers (n=9,650 cases, 153,528 control person-months) is a subset of the total Regular Army sample (n=193,617 person-months) from the Army STARRS Historical Administrative Data Study (HADS). Control person-months were assigned a weight of 200 to adjust for under-sampling.

<sup>&</sup>lt;sup>2</sup>Each predictor (sections I–III) was examined in a separate logistic regression model that adjusted for socio-demographics (gender, current age, race/ethnicity, education) and service-related variables (age at Army entry, time in service [1 year, 2 years, 3-4 years, 5-10 years, >10 years], deployment status [never, currently, or previously deployed], delayed promotion, demotion, military occupation [combat arms, special forces, combat medic, other]). Models also included a dummy predictor variable for calendar month and year to control for secular trends.

<sup>&</sup>lt;sup>3</sup>Total includes both cases (i.e., soldiers with a suicide attempt) and control person-months.

<sup>&</sup>lt;sup>4</sup>Rate per 100,000 person-years, calculated based on n₁/n₂, where n₁ is the unique number of soldiers within each category and n₂ is the annual number of person-*years*, not person-*months*, in the population (n=3.08 million).

<sup>&</sup>lt;sup>5</sup>Pop % = percent of the total population of enlisted soldiers.

<sup>&</sup>lt;sup>6</sup>SRE = Standardized risk estimates (number of soldiers with a suicide attempt per 100,000 person-years) were calculated assuming other predictors were at their sample-wide means.

<sup>&</sup>lt;sup>7</sup>Includes only founded crimes. Categories are hierarchical and mutually exclusive such that soldiers were classified based on the most serious crime in their records (major violent crime > minor violent crime > non-violent crime).

<sup>&</sup>lt;sup>8</sup>Includes any history of family violence victimization or perpetration based on legal, Army Central Registry, or medical records.

<sup>\*</sup>p < 0.05

**eTable 14.** Counts and Rates of Suicide Attempts by Crime Victimization/Perpetration and Family Violence Among Regular Army Enlisted Soldiers With and Without a History of Mental Health Diagnosis<sup>1</sup>

				History	of Mental	Health Diagno	sis			
		Mental Heal	evious th Diagnos 03,525)	<u> </u>	Any Previous Mental Health Diagnosis (n = 59,653)					
	Cases (n)	Total (n) <sup>2</sup>	Rate <sup>3</sup>	Pop %⁴	SRE⁵	Cases (n)	Total (n) <sup>2</sup>	Rate <sup>3</sup>	Pop %⁴	SRE⁵
I. Crime Victimization <sup>6</sup>										
Major Violent Crime	24	70,224	410	0.4	307	225	161,225	1,675	1.5	1,175
Minor Violent Crime	30	128,430	280	0.6	342	142	175,742	970	1.6	866
Non-Violent Crime	94	810,894	139	4.1	240	395	776,795	610	7.3	737
No Crime Victimization	3,359	18,997,559	212	95.0	208	5,381	9,594,381	673	89.6	670
II. Crime Perpetration <sup>6</sup>										
Major Violent Crime	25	115,425	260	0.6	397	304	338,504	1,078	3.2	1,186
Minor Violent Crime	37	142,637	311	0.7	350	271	303,271	1,072	2.8	1,003
Non-Violent Crime	368	1,364,368	324	6.8	396	1,480	1,556,880	1,141	14.5	886
No Crime Perpetration	3,077	18,384,677	201	91.9	198	4,088	8,509,488	577	79.5	608
III. Family Violence <sup>7</sup>										
Yes	22	64,822	407	0.3	607	553	822,953	806	7.7	1,052
No	3,485	19,942,285	210	99.7	210	5,590	9,885,190	679	92.3	666
Total	3,507	20,007,107	210	100	_	6,143	10,708,143	688	100	_

The sample of Regular Army enlisted soldiers (n=9,650 cases, 153,528 control person-months) is a subset of the total Regular Army sample (n=193,617 person-months) from the Army STARRS Historical Administrative Data Study (HADS). Control person-months were assigned a weight of 200 to adjust for under-sampling.

<sup>&</sup>lt;sup>2</sup>Total includes both cases (i.e., soldiers with a suicide attempt) and control person-months.

<sup>&</sup>lt;sup>3</sup>Rate per 100,000 person-years, calculated based on n₁/n₂, where n₁ is the unique number of soldiers within each category and n₂ is the annual number of person-*years*, not person-*months*, in the population (n=3.08 million).

<sup>&</sup>lt;sup>4</sup>Pop % = percent of the population of enlisted soldiers within each stratum (i.e., with or without a history of mental health diagnosis).

<sup>&</sup>lt;sup>5</sup>SRE = Standardized risk estimates (number of soldiers with a suicide attempt per 100,000 person-years) were calculated assuming other predictors were at their sample-wide means. The SREs for each predictor (sections I-III) were calculated using separate logistic regression analyses that adjusted for socio-demographics (gender, current age, race/ethnicity, education, marital status) and service-related variables (age at Army entry, time in service [1 year, 2 years, 3-4 years, 5-10 years], deployment status [never, currently, or previously deployed], delayed promotion, demotion, military occupation [combat arms, special forces, combat medic, other]). Models also included a dummy predictor variable for calendar month and year to control for secular trends.

<sup>&</sup>lt;sup>6</sup>Includes only founded crimes. Categories are hierarchical and mutually exclusive such that soldiers were classified based on the most serious crime in their records (major violent crime > minor violent crime > non-violent crime).

<sup>&</sup>lt;sup>7</sup>Includes any history of family violence victimization or perpetration based on legal, Army Central Registry, or medical records.