

Study Measures

Suicide ideation and suicide attempt. Soldiers' first medically documented episode of suicidal ideation was identified, and among this group, those with a suicide attempt within 30 days of the suicidal ideation were identified. Soldiers who attempted suicide within 30 days of their suicidal ideation diagnosis were labeled as 'cases' and those who did not were 'controls.' Classification was accomplished using administrative records from: the DoDSER (Gahm et al., 2012), a DoD-wide surveillance mechanism that aggregates suicidal behavior information via a standardized form completed by medical providers at DoD treatment facilities; and the ICD-9-CM V62.84 code (indicating SI) and E950-E958 codes (indicating self-inflicted poisoning or injury with suicidal intent) from the Military Health System Data Repository (MDR), Theater Medical Data Store (TMDS), and TRANSCOM (Transportation Command) Regulating and Command and Control Evacuating System (TRAC²ES), which together provide healthcare encounter information from military and civilian treatment facilities, combat operations, and aeromedical evacuations (Table S1, available online at www.starrs-ls.org/#/list/publications). The E959 code (late effects of a self-inflicted injury) was excluded, as it confounds the temporal relationships between the predictor variables and suicide attempt (Walkup et al., 2012). Records from different data systems were cross-referenced to ensure all cases represent unique soldiers.

Socio-demographic and service-related characteristics. Army and DoD administrative personnel records were used to construct socio-demographic (gender, current age, race/ethnicity, education, marital status) and service-related variables (age at Army entry, time in service,

deployment status [never, currently, previously], demotion, delayed promotion, and military occupation [combat arms (which includes combat arms and special forces), combat medic, other; Table S1].

Mental health diagnosis. Administrative medical records identified 28 categories of documented mental disorder diagnoses defined by aggregated ICD-9-CM codes (e.g., attention-deficit/hyperactivity learning disorders [ICD-9-CM codes 314.0-315.9]) and V codes for stressors/adversities (V40.0-V40.9, V61-V61.9, V62-V62.90) and marital problems (V61.1-V61.12) (Table S2). Each mental disorder was categorized into two separate time periods, identified by those disorders occurring on the same day as the first suicidal ideation diagnosis and those identified as occurring prior to the day of first suicidal ideation diagnosis. The indicator variables included each of the ICD-9-CM mental disorder diagnostic codes and stressors/adversities and marital problems V codes. This definition of mental disorder diagnosis detected all soldiers with and without documented, clinically significant, mental health difficulties. In most cases, absence of mental disorder diagnosis indicates significant symptoms were not reported or detected during routine medical care.

Physical healthcare visits and injuries. Administrative medical records identified number of days with a recent outpatient physical healthcare visit (defined as in the previous two months; Ursano, Kessler, Naifeh, et al., 2018), presence and recency of outpatient and inpatient visits for previous injury, and combat injury-related visits. Injury-related healthcare visits were identified using ICD-9-CM codes 800-999, 700s codes indicating musculoskeletal injuries (Hauret et al., 2010), supplemental E-codes, and injury and trauma codes from NATO Standardization Agreement 2050 (Amoroso et al., 2000).

Family violence and crime. Family violence variables were constructed to examine documented family violence victimization or perpetration history (e.g., physical, sexual, or emotional abuse of spouse or child) using legal records, the Army Central Registry (a Family Services data system capturing family violence-related events), and medical (ICD-9-CM) records (Tables S3, S4; details reported elsewhere; Ursano, Stein, Herberman Mash, et al., 2018). Consistent with previous work (Ursano, Stein, Herberman Mash, et al., 2018), the family violence indicator included founded or unfounded legal events and substantiated or unsubstantiated Army Central Registry events. We also constructed variables for: any history of family violence; number of family violence events; time since the most recent family violence event (i.e., number of months, not including month of suicide attempt or sampled control person-month); and role in family violence events (perpetrator, victim only). We created variables that indicated crime perpetration or victimization separately by examining legal records for which the Army found sufficient evidence to warrant investigation (Table S5). These variables were categorized using a hierarchy of no legal incidents, non-violent legal incidents, violent minor legal incidents, and violent major incidents.

TABLE S1. List and Brief Descriptions of Administrative Data Systems Included in the 2004-2009 Army STARRS Historical Administrative Data Study (HADS).

Database Acronym	Description
AFMETS	ARMED FORCES MEDICAL EXAMINER TRACKING SYSTEM (AFMETS): Variables include manner of death and cause of death, including self-inflicted.
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.

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.

TABLE S2. List of Military Occupational Specialties (MOS) in the 2004-2009 Army STARRS Historical Administrative Data Study (HADS) that were Categorized at Combat Arms, Special Forces, and Combat Medic

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 Forces

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 Medic

E68W	Health Care Specialist
E91W	Health Care Specialist

TABLE S3. 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, .99 300.4, .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/ Learning Disorders	314.0, .00, .01, .1, .2, .8, .9 315.00, .01, .02, .09, .1, .2, .3, .31, .32, .34, .39, .4, .5, .8, .9
Conduct Disorder/ Oppositional Defiant Disorder	301.7 312.4, .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 Dependence/ Alcohol Abuse	291.0, .1, .2, .3, .4, .5, .8, .81, .82, .89, .9 303.00, .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
	313.3, .82, .89, .9
	316
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, .10, .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
Postconcussion Syndrome	310.2
Tobacco Use Disorder	301.1, .10, .11, .12, .13
Indicator of Impulsivity and Risky Behavior	V69.2, .3
Self-Damaging Behavior	V69.8

Excluded Mental Health Diagnoses ICD-9-CM Codes

Symptoms, Signs, and Ill-Defined Conditions, Mental

797

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

TABLE S4. List of Family Violence-Related Categories Included in the 2004-2009 Army STARRS Historical Administrative Data Study (HADS).

Data Sources	Database / Code	Description
Army Legal Records		Include legal records of aggravated and/or simple assault, emotional and/or sexual abuse, and family-related non-violent offenses
	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 (ASRC). 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.
Army Central Registry (ACR; Substantiated)		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.

ICD-9 Codes

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
V61.12	Counseling for Perpetrator of Spousal and Partner Abuse
V61.22	Counseling for Perpetrator of Parent Child Abuse
V62.83	Counseling for Perpetrator of Physical/Sexual Abuse

TABLE S5. The National Corrections Reporting Program (NCRP) offense codes used to identify categories of family-related 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)
 - 060 Sex with close blood relative (incest- no force)

TABLE S6. 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
- 3. 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
- 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
- 37. Trafficking - Cocaine Or Crack
- 38. Trafficking – Other Controlled Substances
- 39. Trafficking Marijuana/Hashish

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

TABLE S7. Association of documented mental health diagnoses^a (day of suicide ideation and prior to suicide ideation) of active-duty U.S. Army soldiers with documented suicide attempt within 30 days following initial suicide ideation

	Univariate		Suicide Ideators				Total population (n = 11,178)
	OR ^d	(95% CI ^d)	Attempt suicide within 30 days ^b (n = 387)		Did not attempt suicide within 30 days ^c (n = 10,791)		%
			n	%	n	%	
<u>Mental Health Diagnoses</u>							
ADHD/ Learning Disorders							
Day of suicidal ideation							
No	1.0	–	384	99.22	10,579	98.04	98.08
Yes	0.4	(0.1–1.3)	3	0.78	212	1.96	1.92
	χ^2_1	2.45					
Prior to suicidal ideation							
No	1.0	–	365	94.31	10,320	95.64	95.59
Yes	1.4	(0.9–2.1)	22	5.68	471	4.36	4.41
	χ^2_1	1.88					
Adjustment Disorder							
Day of suicidal ideation							
No	1.0	–	322	83.20	8,945	82.89	82.90
Yes	1.0	(0.7–1.3)	65	16.80	1,846	17.11	17.10
	χ^2_1	0.03					
Prior to suicidal ideation							
No	1.0	–	286	73.90	8,137	75.41	75.35
Yes	1.1	(0.9–1.4)	101	26.10	2,654	24.59	24.65
	χ^2_1	0.87					
Alcohol Use Disorder							
Day of suicidal ideation							
No	1.0	–	313	80.88	8,676	80.40	80.42
Yes	1.0	(0.8–1.3)	74	19.12	2,115	19.60	19.58
	χ^2_1	0.02					
Prior to suicidal ideation							
No	1.0	–	324	83.72	8,777	81.34	81.42
Yes	0.9	(0.7–1.1)	63	16.28	2,014	18.66	18.58
	χ^2_1	0.95					
Anxiety Disorder							
Day of suicidal ideation							
No	1.0	–	333	86.05	8,814	81.68	81.83
Yes	0.7*	(0.5–1.0)	54	13.95	1,977	18.32	18.17
	χ^2_1	4.54*					
Prior to suicidal ideation							
No	1.0	–	246	63.57	7,181	66.55	66.44
Yes	1.2	(1.0–1.5)	141	36.43	3,610	33.45	33.56
	χ^2_1	2.42					
Bipolar Disorder							

Day of suicidal ideation							
No	1.0	–	375	96.90	10,269	95.16	95.22
Yes	0.6	(0.3–1.1)	12	3.10	522	4.84	4.78
	χ^2_1	2.55					
Prior to suicidal ideation							
No	1.0	–	374	96.64	10,338	95.80	95.83
Yes	0.8	(0.5–1.4)	13	3.36	453	4.20	4.17
	χ^2_1	0.59					
Conduct Disorder/ Oppositional Defiant Disorder							
Day of suicidal ideation							
No	1.0	–	377	97.42	10,586	98.10	98.08
Yes	1.4	(0.7–2.6)	10	2.58	205	1.90	1.92
	χ^2_1	0.92					
Prior to suicidal ideation							
No	1.0	–	382	98.71	10,642	98.62	98.62
Yes	0.9	(0.4–2.3)	5	1.29	149	1.38	1.38
	χ^2_1	0.02					
Dysthymic Disorder / Neurasthenia / Depression NOS							
Day of suicidal ideation							
No	1.0	–	172	44.44	4,413	40.90	41.02
Yes	0.9	(0.7–1.1)	215	55.56	6,378	59.10	58.98
	χ^2_1	1.92					
Prior to suicidal ideation							
No	1.0	–	208	53.75	6,146	56.95	56.84
Yes	1.2	(0.9–1.4)	179	46.25	4,645	43.05	43.16
	χ^2_1	2.00					
Major Depression							
Day of suicidal ideation							
No	1.0	–	310	80.10	8,166	75.67	75.83
Yes	0.8	(0.6–1.0)	77	19.90	2,625	24.33	24.17
	χ^2_1	3.81					
Prior to suicidal ideation							
No	1.0	–	331	85.53	9,129	84.60	84.63
Yes	0.9	(0.7–1.3)	56	14.47	1,662	15.40	15.37
	χ^2_1	0.15					
Eating Disorders							
Day of suicidal ideation							
No	1.0	–	387	100.00	10,767	99.78	99.79
Yes	–	–	0	0.00	24	0.22	0.21
	χ^2_1	–					
Prior to suicidal ideation							
No	1.0	–	387	100.00	10,749	99.61	99.62
Yes	–	–	0	0.00	42	0.39	0.38
	χ^2_1	–					
Stressors/Adversities							
Day of suicidal ideation							
No	1.0	–	315	81.40	8,366	77.53	77.66

Yes	0.8	(0.6–1.0)	72	18.60	2,425	22.47	22.34
	χ^2_1	3.25					
Prior to suicidal ideation							
No	1.0	–	272	70.28	7,263	67.31	67.41
Yes	0.9	(0.7–1.1)	115	29.72	3,528	32.69	32.59
	χ^2_1	1.22					
Marital Problems							
Day of suicidal ideation							
No	1.0	–	367	94.83	10,061	93.24	93.29
Yes	0.8	(0.5–1.2)	20	5.17	730	6.76	6.71
	χ^2_1	1.30					
Prior to suicidal ideation							
No	1.0	–	344	88.89	9,072	84.07	84.24
Yes	0.7*	(0.5–0.9)	43	11.11	1,719	15.93	15.76
	χ^2_1	5.69*					
Non-Affective Psychosis							
Day of suicidal ideation							
No	1.0	–	369	95.35	10,308	95.52	95.52
Yes	1.1	(0.7–1.7)	18	4.65	483	4.48	4.48
	χ^2_1	0.06					
Prior to suicidal ideation							
No	1.0	–	379	97.93	10,471	97.03	97.07
Yes	0.7	(0.3–1.4)	8	2.07	320	2.97	2.93
	χ^2_1	0.99					
Organic Mental Disorders							
Day of suicidal ideation							
No	1.0	–	378	97.67	10,605	98.28	98.26
Yes	1.4	(0.7–2.7)	9	2.33	186	1.72	1.74
	χ^2_1	0.76					
Prior to suicidal ideation							
No	1.0	–	369	95.35	10,398	96.36	96.32
Yes	1.3	(0.8–2.1)	18	4.65	393	3.64	3.68
	χ^2_1	1.27					
Other Disorder							
Day of suicidal ideation							
No	1.0	–	336	86.82	9,351	86.66	86.66
Yes	1.0	(0.7–1.3)	51	13.18	1,440	13.34	13.34
	χ^2_1	0.02					
Prior to suicidal ideation							
No	1.0	–	357	92.25	9,756	90.41	90.47
Yes	0.8	(0.5–1.1)	30	7.75	1,035	9.59	9.53
	χ^2_1	1.72					
Other Impulse Control Disorders							
Day of suicidal ideation							
No	1.0	–	385	99.48	10,658	98.77	98.79
Yes	0.4	(0.1–1.7)	2	0.52	133	1.23	1.21
	χ^2_1	1.44					
Prior to suicidal ideation							
No	1.0	–	385	99.48	10,640	98.60	98.63
Yes	0.4	(0.1–1.5)	2	0.52	151	1.40	1.37

	χ^2_1	1.98						
Personality Disorders								
Day of suicidal ideation								
No	1.0	–	354	91.47	9,890	91.65	91.64	
Yes	1.0	(0.7–1.4)	33	8.53	901	8.35	8.36	
	χ^2_1	0.00						
Prior to suicidal ideation								
No	1.0	–	357	92.25	10,069	93.31	93.27	
Yes	1.1	(0.8–1.7)	30	7.75	722	6.69	6.73	
	χ^2_1	0.45						
Sexual Disorders								
Day of suicidal ideation								
No	1.0	–	387	100.00	10,774	99.84	99.85	
Yes	–	–	0	0.00	17	0.16	0.15	
	χ^2_1	–						
Prior to suicidal ideation								
No	1.0	–	385	99.48	10,652	98.71	98.74	
Yes	0.4	(0.1–1.7)	2	0.52	139	1.29	1.26	
	χ^2_1	1.52						
Sleep Disorders								
Day of suicidal ideation								
No	1.0	–	378	97.67	10,664	98.82	98.78	
Yes	2.1*	(1.0–4.1)	9	2.33	127	1.18	1.22	
	χ^2_1	4.36*						
Prior to suicidal ideation								
No	1.0	–	347	89.66	9,801	90.83	90.79	
Yes	1.2	(0.9–1.7)	40	10.34	990	9.17	9.21	
	χ^2_1	1.17						
Somatoform/ Dissociative Disorders								
Day of suicidal ideation								
No	1.0	–	386	99.74	10,735	99.48	99.49	
Yes	0.5	(0.1–3.5)	1	0.26	56	0.52	0.51	
	χ^2_1	0.51						
Prior to suicidal ideation								
No	1.0	–	373	96.38	10,314	95.58	95.61	
Yes	0.8	(0.8–1.7)	14	3.62	477	4.42	4.39	
	χ^2_1	0.58						
TBI/ Postconcussion Syndrome								
Day of suicidal ideation								
No	1.0	–	385	99.48	10,747	99.59	99.59	
Yes	1.4	(0.3–5.7)	2	0.52	44	0.41	0.41	
	χ^2_1	0.18						
Prior to suicidal ideation								
No	1.0	–	376	97.16	10,385	96.24	96.27	
Yes	0.8	(0.4–1.4)	11	2.84	406	3.76	3.73	
	χ^2_1	0.60						
Tobacco Use Disorder								
Day of suicidal ideation								
No	1.0	–	320	82.69	8,870	82.20	82.22	

Yes	1.0	(0.8–1.3)	67	17.31	1,921	17.80	17.78
	χ^2_1	0.00					
Prior to suicidal ideation							
No	1.0	–	255	65.89	6,935	64.27	64.32
Yes	1.0	(0.8–1.2)	132	34.11	3,856	35.73	35.68
	χ^2_1	0.06					
Traumatic Stress							
Day of suicidal ideation							
No	1.0	–	377	97.42	10,409	96.46	96.49
Yes	0.7	(0.4–1.4)	10	2.58	382	3.54	3.51
	χ^2_1	0.85					
Prior to suicidal ideation							
No	1.0	–	358	92.51	9,960	92.30	92.31
Yes	1.0	(0.7–1.5)	29	7.49	831	7.70	7.69
	χ^2_1	0.00					
PTSD							
Day of suicidal ideation							
No	1.0	–	346	89.41	9,393	87.04	87.13
Yes	0.8	(0.6–1.1)	41	10.59	1,398	12.96	12.87
	χ^2_1	1.48					
Prior to suicidal ideation							
No	1.0	–	339	87.60	9,343	86.58	86.62
Yes	1.0	(0.7–1.3)	48	12.40	1,448	13.42	13.38
	χ^2_1	0.09					
Drug-Induced Mental Disorders							
Day of suicidal ideation							
No	1.0	–	381	98.45	10,631	98.52	98.51
Yes	1.1	(0.5–2.4)	6	1.55	160	1.48	1.49
	χ^2_1	0.03					
Prior to suicidal ideation							
No	1.0	–	378	97.67	10,433	96.68	96.72
Yes	0.7	(0.4–1.4)	9	2.33	358	3.32	3.28
	χ^2_1	0.93					
Non-Dependent Drug Abuse							
Day of suicidal ideation							
No	1.0	–	356	91.99	10,050	93.13	93.09
Yes	1.2	(0.8–1.7)	31	8.01	741	6.87	6.91
	χ^2_1	0.86					
Prior to suicidal ideation							
No	1.0	–	365	94.32	10,054	93.17	93.21
Yes	0.8	(0.5–1.3)	22	5.68	737	6.83	6.79
	χ^2_1	0.60					
Drug Dependence							
Day of suicidal ideation							
No	1.0	–	373	96.38	10,440	96.75	96.73
Yes	1.1	(0.6–1.9)	14	3.62	351	3.25	3.27
	χ^2_1	0.14					
Prior to suicidal ideation							
No	1.0	–	373	96.38	10,368	96.08	96.09

Yes	0.9	(0.5–1.6)	14	3.62	423	3.92	3.91
	χ^2_1	0.07					
Indicator of Impulsivity & Risky Behavior							
Day of suicidal ideation							
No	1.0	–	29	7.49	902	8.36	8.33
Yes	1.1	(0.7–1.6)	358	92.51	9,889	91.64	91.67
	χ^2_1	0.17					
Prior to suicidal ideation							
No	1.0	–	387	100.00	10,786	99.95	99.96
Yes	–	–	0	0.00	5	0.05	0.04
	χ^2_1	–					
Self-Damaging Behavior							
Day of suicidal ideation							
No	1.0	–	386	99.74	10,780	99.90	99.89
Yes	3.1	(0.4–24.5)	1	0.26	11	0.10	0.11
	χ^2_1	1.19					
Prior to suicidal ideation							
No	1.0	–	386	99.74	10,746	99.58	99.59
Yes	0.6	(0.1–4.6)	1	0.26	45	0.42	0.41
	χ^2_1	0.21					

^aTable S3 includes all ICD-9-CM codes associated with each mental disorder

^bSoldiers with first-time documented suicide ideation who subsequently attempted suicide within the next 30 days of recorded ideation

^cSoldiers with first-time documented suicide ideation who did not subsequently attempt suicide within the next 30 days

^dOR = Odds ratio; CI = Confidence interval

* $p < .05$

TABLE S8. Association of family violence and crime of active-duty U.S. Army soldiers with documented suicide attempt within 30 days following initial suicide ideation

	Univariate		Suicide Ideators				Total population (n = 11,178)
	OR ^c	(95% CI ^c)	Attempt suicide within 30 days ^a (n = 387)		Did not attempt suicide within 30 days ^b (n = 10,791)		%
			n	%	n	%	
<u>Family Violence</u>							
Yes	0.9	(0.5–1.4)	18	4.65	593	5.50	5.47
No	1.0	–	369	95.35	10,198	94.50	94.53
	χ^2_1	0.32					
Family Violence Role							
Perpetrator	0.8	(0.5–1.5)	13	3.36	445	4.12	4.10
Victim only	1.0	(0.4–2.3)	5	1.29	148	1.37	1.37
None	1.0	–	369	95.35	10,198	94.50	94.53
	χ^2_2	0.37					
# Family Violence Incidents							
2+ episodes	0.9	(0.4–2.2)	6	1.55	186	1.72	1.72
1 episode	0.8	(0.5–1.5)	12	3.10	407	3.77	3.75
None	1.0	–	369	95.35	10,198	94.50	94.53
	χ^2_2	0.38					
Time Since Most Recent Family Violence Episode							
Never	1.0	–	369	95.35	10,198	94.50	94.53
1 month	1.1	(0.4–3.0)	4	1.03	105	0.97	0.98
2-3 months	0.9	(0.3–2.4)	4	1.03	130	1.20	1.20
4-12 months	1.0	(0.4–2.3)	6	1.55	168	1.56	1.56
13+ months	0.6	(0.2–1.7)	4	1.03	190	1.76	1.74
	χ^2_4	1.02					
<u>Crime Perpetration</u>							
Violent, major	1.4	(0.9–2.4)	16	4.13	323	2.99	3.03
Violent, minor	1.0	(0.5–1.9)	10	2.58	288	2.67	2.67
Non-violent	1.0	(0.7–1.3)	67	17.31	1,946	18.03	18.01
None	1.0	–	294	75.97	8,234	76.30	76.29
	χ^2_3	1.98					
<u>Crime Victimization</u>							
Violent, major	1.1	(0.6–2.2)	9	2.33	225	2.09	2.09
Violent, minor	1.3	(0.6–2.6)	8	2.07	179	1.66	1.67
Non-violent	0.7	(0.4–1.3)	14	3.62	545	5.05	5.00
None	1.0	–	356	91.99	9,842	91.21	91.23
	χ^2_3	1.90					
<u>Physical Healthcare & Injury Visits</u>							

Days with Outpatient Visit in Past 2 Months ^d	1.01	(0.99–1.03)					
0			64	16.54	2,153	19.95	19.83
1			71	18.78	1,573	14.58	14.71
2			50	12.92	1,464	13.57	13.54
3			35	9.04	1,162	10.77	10.71
4			28	7.24	952	8.82	8.77
5			31	8.01	705	6.53	6.58
6			23	5.94	578	5.36	5.38
7			20	5.17	410	3.80	3.85
8+			65	16.80	1,794	16.62	16.63
	χ^2_8	0.58					
<u>Injury-Related Healthcare Visit</u>							
Any Inpatient Visit for Injury	1.0	(0.6–1.6)	21	5.43	649	6.01	5.99
Only Outpatient Visit	1.1	(0.9–1.4)	288	74.42	7,826	72.52	72.59
No Visit for Injury	1.0	–	78	20.16	2,316	21.46	21.42
	χ^2_2	0.90					
Combat Injury							
Yes	0.9	(0.4–1.9)	7	1.81	230	2.13	2.12
No	1.0	–	384	98.19	10,561	97.87	97.92
	χ^2_1	0.13					

^aCases: Soldiers with first-time documented suicide ideation who subsequently attempted suicide within the next 30 days of recorded ideation

^bControls: Soldiers with first-time documented suicide ideation who did not subsequently attempt suicide within the next 30 days

^cOR = Odds ratio; CI = Confidence interval

^dDays with outpatient visits in past 2 months included the following categories: 0, 1, 2, 3, 4, 5, 6, 7, 8+

* $p < .05$

TABLE S9. Multivariate associations of socio-demographic and service-related characteristics in active-duty U.S. Army soldiers with documented suicide attempt within 30 days following initial suicide ideation^a

		OR^b	(95% CI^b)
<u>Socio-demographic characteristics</u>			
Gender			
	Male	1.0	–
	Female	1.4*	(1.1-1.8)
	χ^2_1		6.20*
Current Age			
	< 21	1.4	(0.6-2.9)
	21-24	1.4	(0.7-2.7)
	25-29	1.5	(0.8-2.5)
	30-34	1.0	–
	35-39	0.9	(0.4-2.0)
	40+	1.3	(0.5-3.4)
	χ^2_5		2.91
Race/Ethnicity			
	White	1.0	–
	Black	0.6*	(0.4-0.9)
	Hispanic	1.2	(0.8-1.6)
	Other	0.6	(0.4-1.2)
	χ^2_3		10.43*
Education			
	< High school	1.1	(0.9-1.4)
	High school	1.0	–
	Some college	1.3	(0.7-2.7)
	≥ College	1.2	(0.5-2.7)
	χ^2_3		1.66
Marital Status			
	Never married	1.0	–
	Currently married	1.3*	(1.0-1.6)
	Previously married	1.3	(0.6-2.8)
	χ^2_2		4.09
<u>Service-related Characteristics</u>			
Age at Army Entry			
	< 21	1.2	(0.9-1.6)
	21-24	1.0	–
	25+	1.1	(0.7-1.8)
	χ^2_2		1.10
Time in Service			
	1-2 years	1.1	(0.6-2.0)
	3-4 years	1.1	(0.7-1.6)
	5-10 years	1.0	–
	> 10 years	0.7	(0.3-1.5)
	χ^2_3		0.98
Deployment Status			
	Never	1.0	–
	Current	0.9	(0.6-1.5)

Previous	1.1	(0.8-1.5)
χ^2_2		0.34
Demotion		
Past year	0.9	(0.5-1.4)
Before past year	1.0	(0.7-1.6)
Never demoted	1.0	–
χ^2_2		0.34
Delayed Promotion		
On schedule	1.0	–
Late: < 2 months	1.3	(0.7-2.2)
Late: > 2 months	0.8	(0.5-1.4)
Not relevant because of rank ^c	0.8	(0.5-1.2)
χ^2_3		2.89
Military Occupational Specialty (MOS)		
Combat arms ^d	1.1	(0.8-1.4)
Combat medics	1.6*	(1.1-2.3)
Other MOS	1.0	–
χ^2_2		6.82*

^aMultivariate model was adjusted for socio-demographics (gender, current age, race, education, and marital status) and service-related characteristics.

^bOR = Odds ratio; CI = Confidence interval

^cSoldiers above the rank of E4 are not promoted on a set schedule.

^dCombat Arms includes Combat Arms and Special Forces soldiers.

*p < .05

TABLE S10. Multivariate associations of documented mental health diagnoses^a (day of suicide ideation and prior to suicide ideation) of active-duty U.S. Army soldiers with documented suicide attempt within 30 days following initial suicide ideation^b

	OR ^c	(95% CI ^c)
Mental Health Diagnoses		
ADHD/ Learning Disorders		
Day of suicidal ideation		
No	1.0	–
Yes	0.4	(0.1–1.2)
χ^2_1		2.60
Prior to suicidal ideation		
No	1.0	–
Yes	1.4	(0.9–2.2)
χ^2_1		2.30
Adjustment Disorder		
Day of suicidal ideation		
No	1.0	–
Yes	1.0	(0.7–1.3)
χ^2_1		0.10
Prior to suicidal ideation		
No	1.0	–
Yes	1.2	(0.9–1.5)
χ^2_1		1.50
Alcohol Use Disorder		
Day of suicidal ideation		
No	1.0	–
Yes	1.0	(0.8–1.4)
χ^2_1		0.10
Prior to suicidal ideation		
No	1.0	–
Yes	1.0	(0.7–1.3)
χ^2_1		0.00
Anxiety Disorder		
Day of suicidal ideation		
No	1.0	–
Yes	0.7*	(0.5–1.0)
χ^2_1		4.60*
Prior to suicidal ideation		
No	1.0	–
Yes	1.3*	(1.0–1.6)
χ^2_1		4.10*
Bipolar Disorder		
Day of suicidal ideation		
No	1.0	–
Yes	0.6	(0.3–1.1)
χ^2_1		3.20
Prior to suicidal ideation		
No	1.0	–
Yes	0.8	(0.5–1.4)
χ^2_1		0.50

**Conduct Disorder/
Oppositional Defiant Disorder**

Day of suicidal ideation			
No	1.0		–
Yes	1.4		(0.7–2.6)
	χ^2_1	0.90	
Prior to suicidal ideation			
No	1.0		–
Yes	1.0		(0.4–2.4)
	χ^2_1	0.0	

**Dysthymic Disorder /
Neurasthenia / Depression
NOS**

Day of suicidal ideation			
No	1.0		–
Yes	0.9		(0.7–1.0)
	χ^2_1	2.30	
Prior to suicidal ideation			
No	1.0		–
Yes	1.2		(1.0–1.5)
	χ^2_1	3.80	

Major Depression

Day of suicidal ideation			
No	1.0		–
Yes	0.8		(0.6–1.0)
	χ^2_1	2.70	
Prior to suicidal ideation			
No	1.0		–
Yes	1.0		(0.8–1.4)
	χ^2_1	0.10	

Eating Disorders

Day of suicidal ideation			
No	1.0		–
Yes	–		–
	χ^2_1	–	
Prior to suicidal ideation			
No	1.0		–
Yes	–		–
	χ^2_1	–	

Stressors/Adversities

Day of suicidal ideation			
No	1.0		–
Yes	0.8		(0.6–1.0)
	χ^2_1	3.20	
Prior to suicidal ideation			
No	1.0		–
Yes	1.0		(0.8–1.3)
	χ^2_1	0.00	

Marital Problems

Day of suicidal ideation			
No	1.0		–

Yes		0.8	(0.5–1.3)
	χ^2_1		0.70
Prior to suicidal ideation			
No		1.0	–
Yes		0.7	(0.5–1.0)
	χ^2_1		3.10
Non-Affective Psychosis			
Day of suicidal ideation			
No		1.0	–
Yes		1.1	(0.7–1.8)
	χ^2_1		0.30
Prior to suicidal ideation			
No		1.0	–
Yes		0.8	(0.4–1.6)
	χ^2_1		0.40
Organic Mental Disorders			
Day of suicidal ideation			
No		1.0	–
Yes		1.5	(0.8–3.0)
	χ^2_1		1.40
Prior to suicidal ideation			
No		1.0	–
Yes		1.5	(0.9–2.5)
	χ^2_1		3.00
Other Disorder			
Day of suicidal ideation			
No		1.0	–
Yes		1.0	(0.7–1.3)
	χ^2_1		0.00
Prior to suicidal ideation			
No		1.0	–
Yes		0.8	(0.5–1.2)
	χ^2_1		1.50
Other Impulse Control Disorders			
Day of suicidal ideation			
No		1.0	–
Yes		0.5	(0.1–1.9)
	χ^2_1		1.20
Prior to suicidal ideation			
No		1.0	–
Yes		0.4	(0.1–1.6)
	χ^2_1		1.80
Personality Disorders			
Day of suicidal ideation			
No		1.0	–
Yes		0.9	(0.7–1.4)
	χ^2_1		0.10
Prior to suicidal ideation			
No		1.0	–
Yes		1.2	(0.8–1.7)

	χ^2_1	0.70	
Sexual Disorders			
Day of suicidal ideation			
No	1.0	–	
Yes	–	–	
	χ^2_1	–	
Prior to suicidal ideation			
No	1.0	–	
Yes	0.6	(0.1–2.4)	
	χ^2_1	0.60	
Sleep Disorders			
Day of suicidal ideation			
No	1.0	–	
Yes	2.2*	(1.1–4.3)	
	χ^2_1	4.70*	
Prior to suicidal ideation			
No	1.0	–	
Yes	1.4	(1.0–1.9)	
	χ^2_1	3.10	
Somatoform/ Dissociative Disorders			
Day of suicidal ideation			
No	1.0	–	
Yes	0.5	(0.1–3.6)	
	χ^2_1	0.50	
Prior to suicidal ideation			
No	1.0	–	
Yes	0.9	(0.5–1.6)	
	χ^2_1	0.10	
TBI/ Postconcussion Syndrome			
Day of suicidal ideation			
No	1.0	–	
Yes	1.5	(0.4–6.4)	
	χ^2_1	0.30	
Prior to suicidal ideation			
No	1.0	–	
Yes	0.9	(0.5–1.6)	
	χ^2_1	0.20	
Tobacco Use Disorder			
Day of suicidal ideation			
No	1.0	–	
Yes	1.0	(0.8–1.3)	
	χ^2_1	0.00	
Prior to suicidal ideation			
No	1.0	–	
Yes	1.0	(0.8–1.3)	
	χ^2_1	0.10	
Traumatic Stress			
Day of suicidal ideation			
No	1.0	–	
Yes	0.7	(0.4–1.4)	

	χ^2_1	1.00	
Prior to suicidal ideation			
No	1.0	–	
Yes	1.0	(0.7–1.5)	
	χ^2_1	0.00	
PTSD			
Day of suicidal ideation			
No	1.0	–	
Yes	0.9	(0.6–1.3)	
	χ^2_1	0.50	
Prior to suicidal ideation			
No	1.0	–	
Yes	1.1	(0.8–1.5)	
	χ^2_1	0.20	
Drug-Induced Mental Disorders			
Day of suicidal ideation			
No	1.0	–	
Yes	1.2	(0.5–2.6)	
	χ^2_1	0.10	
Prior to suicidal ideation			
No	1.0	–	
Yes	0.8	(0.4–1.6)	
	χ^2_1	0.40	
Non-Dependent Drug Abuse			
Day of suicidal ideation			
No	1.0	–	
Yes	1.2	(0.8–1.7)	
	χ^2_1	0.80	
Prior to suicidal ideation			
No	1.0	–	
Yes	0.9	(0.6–1.4)	
	χ^2_1	0.30	
Drug Dependence			
Day of suicidal ideation			
No	1.0	–	
Yes	1.1	(0.6–1.9)	
	χ^2_1	0.10	
Prior to suicidal ideation			
No	1.0	–	
Yes	1.0	(0.6–1.8)	
	χ^2_1	0.00	
Indicator of Impulsivity & Risky Behavior			
Day of suicidal ideation			
No	1.0	–	
Yes	1.1	(0.7–1.6)	
	χ^2_1	0.10	
Prior to suicidal ideation			
No	1.0	–	
Yes	–	–	

Self-Damaging Behavior		χ^2_1	–
Day of suicidal ideation			
No		1.0	–
Yes		2.8	(0.4–22.1)
	χ^2_1		0.9
Prior to suicidal ideation			
No		1.0	–
Yes		0.7	(0.1–5.1)
	χ^2_1		0.1

^aTable S3 includes all ICD-9-CM codes associated with each mental disorder

^bMultivariate model was adjusted for socio-demographics (gender, current age, race, education, and marital status) and service-related characteristics.

^cOR = Odds ratio; CI = Confidence interval

* $p < .05$

TABLE S11. Multivariate associations of crime and family violence characteristics and healthcare factors in active-duty U.S. Army soldiers with documented suicide attempt within 30 days following initial suicide ideation^{ab}

	OR^c	(95% CI^c)
<u>Family violence</u>		
Yes	0.9	(0.6–1.6)
No	1.0	–
		χ^2_1 0.05
Family Violence Role		
Perpetrator	1.0	(0.5–1.7)
Victim only	0.9	(0.4–2.2)
None	1.0	–
		χ^2_2 0.08
# Family Violence Incidents		
2+ episodes	1.0	(0.4–2.4)
1 episode	0.9	(0.5–1.6)
None	1.0	–
		χ^2_2 0.11
Time Since Most Recent Family Violence Episode		
Never	1.0	–
1 month	1.2	(0.4–3.2)
2-3 months	0.9	(0.3–2.4)
4-12 months	1.0	(0.5–2.4)
13+ months	0.8	(0.3–2.1)
		χ^2_4 0.45
<u>Crime Perpetration</u>		
Violent, major	1.8*	(1.1–3.1)
Violent, minor	1.2	(0.6–2.2)
Non-violent	1.1	(0.8–1.4)
None	1.0	–
		χ^2_3 5.01
<u>Crime Victimization</u>		
Violent, major	1.0	(0.5–2.0)
Violent, minor	1.3	(0.7–2.8)
Non-violent	0.8	(0.5–1.4)
None	1.0	–
		χ^2_3 1.19
<u>Physical Healthcare and Injury Visits</u>		
Days with outpatient visit in past 2 months ^d	1.0	(0.98–1.1)
		χ^2_8 0.71
Recency of injury visit (inpatient)		
Never	1.0	–
1 month	1.1	(0.3–3.4)
2 months	–	–
3+ months	1.2	(0.7–1.9)
		χ^2_3 0.33
Combat injury		

Yes	1.0	(0.5–2.1)
No	1.0	–
	χ^2_1	0.002

^aEach variable was examined in a separate multivariate model that adjusted for socio-demographics (gender, current age, race, education, and marital status) and service-related characteristics (age at entry into Army service, time in service, deployment status, delayed promotion, demotion, military occupation).

^bDuring month of attempt for cases (i.e., those with first-time documented suicide ideation who subsequently attempted suicide within the next 30 days of recorded ideation) versus during the month of first-time documented suicide ideation for controls (i.e., those who did not subsequently attempt suicide within the next 30 days)

^cOR = Odds ratio; CI = Confidence interval

^dDays with outpatient visits in past 2 months included the following categories: 0, 1, 2, 3, 4, 5, 6, 7, 8+

* $p < .05$