

Appendix material for:

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Understanding the elevated suicide risk of female soldiers during deployments. *Psychological Medicine*.

eTable 1. List and brief descriptions of administrative datasets included in the Army STARRS Historical Administrative Data Systems (HADS)

Database Acronym	Description
AFMETS	ARMED FORCES MEDICAL EXAMINER TRACKING SYSTEM (AFMETS): Variables include manner of death and cause of death, including self-inflicted.
MDR	MEDICAL 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.
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/Casualty	DEFENSE MANPOWER DATA CENTER (DMDC) / CASUALTY: Provides information on war deaths and active duty deaths, wounds, injuries, and illnesses.
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 will contain unsuccessful attempts and completed suicide cases.
TMDS	THEATER MEDICAL DATA STORE (TMDS): Used to track, analyze, view and manage Soldier medical treatment information recorded on the battlefield. 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.
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.
MEDPROS/Readiness	MEDICAL PROTECTION SYSTEM (MEDPROS) / READINESS: The comprehensive Medical Readiness data includes all medical and dental readiness requirements IAW AR 600-8-101. They include immunizations, permanent physical profiles/duty limitations, eyeglasses/inserts, blood type, medical warning tags, personal deployment meds, pregnancy screening, DNA, HIV and dental status among other data elements.
DMDC/Perstempo	DEFENSE MANPOWER DATA CENTER (DMDC) / PERSONNEL TEMPO: Provides information on soldier movement. Perstempo is a Congressionally mandated definition of time in which servicemembers engaged in official duties spend off-duty time away from housing associated with their garrison duty (time away from home station). The definition also applies to contingency operations such as OIF and OEF.
ACR	ARMY CENTRAL REGISTRY (ACR): This is a victim-based registry documenting spouse and child abuse events involving Army service members.
AWD	ARMY WAIVER DATA (AWD): Information on waivers granted to new recruits to join the Army. The waivers are provided for four primary categories: 1) dependence (married with over two children), 2) conduct, 3) drug and alcohol, and 4) medical.
DAMIS	DRUG AND ALCOHOL MANAGEMENT INFORMATION SYSTEM (DAMIS): Includes data from the Army drug and alcohol prevention training and substance abuse program.
DMDC/MEPCOM	DEFENSE MANPOWER DATA CENTER (DMDC) / MILITARY ENTRANCE PROCESSING COMMAND (MEPCOM): Contains transaction records on all individuals processed and examined at Military Entrance

	Processing Stations (MEPS) since July 1970. Examination data prior to FY 1976 is incomplete. Data elements in the USMEPCOM Files are divided into three groups: Personal, Medical, and Administrative. The primary user is the Office of the Undersecretary of Defense (Personnel and Readiness) where ASVAB data provides the basis for aptitude-related studies.
DMDC/Payroll	DEFENSE MANPOWER DATA CENTER (DMDC) / Payroll: Contains elements with information such as: Demographics, Special and Incentive Pays, Basic Pay and Allowances. This file is also used to answer pay-related questions for the General Accounting Office, Military Services research centers, and other government agencies.
DTMS	DIGITAL TRAINING MANAGEMENT SYSTEM (DTMS): Contains information on training requirements and standards, training planned and scheduled by Army units, and training accomplished by individuals and units in the Army.
MEDPROS/DHA	MEDICAL PROTECTION SYSTEM (MEDPROS) / DEPLOYMENT HEALTH ASSESSMENT (DHA): The DHA cycle begins when a Soldier completes the DD Form 2795 (Pre-Deployment Health Assessment) prior to deployment. Soldiers complete the DD Form 2796 Post Deployment Health Assessment (PDHA) prior to redeployment/demobilization. This triggers their PDHRA eligibility. At 90 days after completion of the DD Form 2796, Soldiers become eligible to participate in a PDHRA screening. The targeted window for PDHRA is 90-180 days after deployment. Once the Soldier is screened, follow-up appointments and treatment will be scheduled as needed.
MEDPROS/PHA	MEDICAL PROTECTION SYSTEM (MEDPROS) / PERIODIC HEALTH ASSESSMENT (PHA): The PHA is an annual physical and consists of two parts. Part one is a self-assessment completed by the Soldier; Part two is the provider assessment. PHA results consist of the health assessment, height, weight, PULHES, and potential for deployability within six months. These items will be entered into MEDPROS at the point of service. The PHA is intended to improve Individual Medical Readiness and to evaluate deployability.
RRPS	RISK AND REDUCTION PROGRAM SYSTEM (RRPS): The RRPS collects data at the unit level that may show that members of the unit are at a higher risk. The Risk Reduction Program collects the number of incidents of high risk behavior by battalion level or separate company.
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.
TRAC2ES	TRANSCOM REGULATING AND COMMAND AND CONTROL EVACUATION SYSTEM (TRAC2ES): A tracking system for all medical transfers across the world for all DOD services.
ASMIS-R	ARMY SAFETY MANAGEMENT INFORMATION SYSTEM-REVISED (ASMIS-R): Contains incident information data. Components consist of the reporting, analysis, and tracking of data, as well as, efforts to provide preventative measures via risk assessments. ReportIT provides for the collection, verification, and timely dissemination of incident investigation and safety inspection data. AnalyzeIT serves as the business intelligence suite designed to identify trends and problem areas via data mining techniques and ad hoc analysis. TrackIT is designed for monitoring recommended controls and logging hazards. PreventIT encompasses risk assessment and guidance tools for units, battalions, commanders, civilians, and contractors.
CIMS/AC12	CRIMINAL INVESTIGATION DIVISION INFORMATION MANAGEMENT SYSTEM (CIMS) / AUTOMATED CRIMINAL INVESTIGATION/CRIMINAL INTELLIGENCE (ACI2): Event level crime record database. Separate system from ASCRC; Entity IDs are associated with offenses.
CIMS/ASCRC	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 record.
COPS/VRS	CENTRALIZED OPERATIONS POLICE SUITE (COPS) / VEHICLE REGISTRATION SYSTEM (VRS): Provides information on privately owned vehicles of civilians and military personnel utilized at military installations.
PDCAPS	PHYSICAL DISABILITY CASE PROCESSING SYSTEM (PDCAPS): Contains information on fitness and applicable disability benefits of Soldiers with duty related impairments, including clinical information of all medical conditions the Soldier manifests to determine whether each condition meets medical retention standards.
ACMIS	ARMY COURT MARTIAL INFORMATION SYSTEM (ACMIS): Contains data on Soldiers (including Officers) arraigned on court-martial charges at either a Special or General Court-Martial. It also contains some basic information concerning them such as their rank, their GT score (if available), their SSNs, and their birthdays. The database includes such information as where the Soldier was tried, which General Court-Martial Jurisdiction convened the case, the offenses charged, how the accused plead, the findings in the case as well as the sentence (if any). It also contains information concerning cases required to proceed through the appellate court process and outcome in the appellate court system. It includes the location of the offenses and trial, and tracks the dates of certain events in the court-martial process. It does not contain any information concerning whether or not an accused has committed suicide.

ANAM	AUTOMATED NEUROPSYCHOLOGICAL ASSESSMENT METRICS (ANAM): This is an Army-developed and Army-owned, objective, computer-based test of human performance and neuropsychological functioning used to assess the cognitive performance of all active duty, reserve, and National Guard Soldiers.
ATRRS	ARMY TRAINING AND REQUIREMENTS RESOURCE SYSTEM (ATRRS): This is a system of record for management of personnel input to training and is the repository for training requirements, programs, personnel data and training costs.
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.
COPS/Violations	CENTRALIZED OPERATIONS POLICE SUITE (COPS) / VIOLATIONS: Violation information contained in MPRS system (e.g., incident, time of incident).
COPS/ACIS	CENTRALIZED OPERATIONS POLICE SUITE (COPS) / ARMY CORRECTIONAL INFORMATION SYSTEM (ACIS): This System has information for the confinement facility on new prisoners, currently confined prisoners, departed prisoners, and a monthly summary report of confinement facility activity data.
SFT	SOLDIER FITNESS TRACKER (SFT): Formerly known as the Comprehensive Soldier Fitness Global Assessment Tool (CSF-GAT), this source provides baseline information on strength in four areas: emotional, social, spiritual and family. Also provides an opportunity to track self-development and growth in these areas over time. The Chief of Staff of the Army is requiring all Soldiers to take the GAT by May 2010. The object of this program is to enhance performance and build resilience.
EORS	EQUAL OPPORTUNITY REPORTING SYSTEM (EORS): Database is used to collect, record, and maintain racial, ethnic group, and gender data and statistics needed to support the Army EO Program, to include AAP reporting requirements. No health related data. Contains information such as: rank, race, complaint type, category, gender, timeline case start to end, resolution.
ITAPDB	INTEGRATED TOTAL ARMY PERSONNEL DATABASE (ITAPDB): Contains consolidated human resource database providing the Army and DOD with a single repository for personnel information for all components of the Army.
WWAS	WOUNDED WARRIOR ACCOUNTABILITY SYSTEM (WWAS): Integrated applications that support the accurate, timely, and effective tracking and management of Warfighters in the Wounded Warrior Lifecycle.

eTable 2. International Classification of Diseases, Ninth Revision Clinical Modification (ICD-9-CM) codes used to identify mental disorders

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
ADHD/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
Tobacco Use Disorder	305.1, .10, .11, .12, .13
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
Somatiform/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

	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
Organic Mental Disorders	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
Postconcussion Syndrome	310.2
	292.85
	299.00, .01, .10, .80, .81, .90, .91
	300.9
Other Mental Disorders/Mental Illness	307.0, .52, .53, .6, .7, .9
	309.22
	310.1
	313.3, .82, .89, .9
	316
Suicidal Ideation	V62.84
Self-Damaging Behavior	V69.8
	797
Symptoms, Signs, and Ill-Defined Conditions, Mental	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
Indicator of Impulsivity and Risky Behavior	V69.2, .3
	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
Stressors/Adversities	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
Traumatic Stress	308, .0, .1, .2, .3, .4, .9

Abbreviations: NOS, Not Otherwise Specified; ADHD, Attention Deficit-Hyperactivity Disorder.