

## AMSARA/DESAR Publications

Bedno SA, Cowan DN, Urban N, Niebuhr DW. **Effect of pre-accession physical fitness on traininginjuries among US Army recruits.** Work. 2013;44(4):509-15.  
<https://doi.org/10.3233/WOR-2012-1355>.

Bedno SA, Jackson R, Feng X, Walton IL, Boivin MR, Cowan DN. **Meta-analysis of Cigarette Smoking and Musculoskeletal Injuries in Military Training.** Med Sci Sports Exerc. 2017;49(11):2191-7. <https://doi.org/10.1249/MSS.0000000000001349>.

Bedno SA, Lang CE, Daniell WE, Wiesen AR, Datu B, Niebuhr DW. **Association of weight at enlistment with enrollment in the Army Weight Control Program and subsequent attrition in the Assessment of Recruit Motivation and Strength Study.** Mil Med. 2010;175(3):188-93.

Bedno SA, Li Y, Han W, Cowan DN, Scott CT, Cavicchia MA, et al. **Exertional heat illness among overweight U.S. Army recruits in basic training.** Aviat Space Environ Med. 2010;81(2):107-11.

Bedno SA, Urban N, Boivin MR, Cowan DN. **Fitness, obesity and risk of heat illness among Army trainees.** Occup Med-Oxford. 2014;64(6):461-7. <https://doi.org/10.1093/occmed/kqu062>.

Carr W, Kelley AL, Toolin CF, Weber NS. **Association of MOS-Based Blast Exposure With Medical Outcomes.** Front Neurol. 2020 Jul 31;11:619. doi: 10.3389/fneur.2020.00619. PMID: 32849167; PMCID: PMC7413071.

Clark KL, Li Y, Krauss MR, Kelley PW. **The asthma accession standard: a survival analysis of military recruits, 1995 to 1997.** Mil Med. 2000;Nov;165(11):852-4. PubMed PMID: 11143433.

Clark KL, Mahmoud RA, Krauss MR, Kelley PW, Grubb LK, Ostroski MR. **Reducing medical attrition: the role of the Accession Medical Standards Analysis and Research Activity.** Mil Med. 1999 Jul;164(7):485-7. PubMed PMID: 10414063.

Connor RR, Boivin MR, Packnett ER, Toolin CF, Cowan DN. **The Relationship Between Deployment Frequency and Cumulative Duration, and Discharge for Disability Retirement Among Enlisted Active Duty Soldiers and Marines.** Mil Med. 2016;181(11):e1532-e9.  
<https://doi.org/10.7205/MILMED-D-16-00016>

Cowan DN, Bedno SA, Urban N, Lee DS, Niebuhr DW. **Step Test Performance and Risk of Stress Fractures Among Female Army Trainees.** Am J Prev Med. 2012; 42(6):620-4.  
<https://doi.org/10.1016/j.amepre.2012.02.014>

Cowan DN, Bedno SA, Urban N, Yi B, Niebuhr DW. **Musculoskeletal injuries among overweight army trainees: incidence and health care utilization.** Occup Med (Lond). 2011;61(4):247-52  
<https://doi.org/10.1093/occmed/kqr028>.

Cowan DN, Weber NS, Fisher JA, Bedno SA, Niebuhr DW. **Incidence of adult onset schizophrenic disorders in the US military: patterns by sex, race and age.** Schizophr Res. 2011 Apr;127(1-3):235-40. doi: 10.1016/j.schres.2010.12.005. Epub 2011 Jan 11. PubMed PMID: 21227655.

Cox KA, Clark KL, Li Y, Powers TE, Krauss MR. **Prior knee injury and risk of future hospitalization and discharge from military service.** Am J Prev Med. 2000;18(3 Suppl):112-7.

Elmasry H, Boivin MR, Feng X, Packnett ER, Cowan DN. **Preenlistment and Early Service Risk Factors for Traumatic Brain Injury in the Army and Marine Corps: FY 2002-2010.** J Head Trauma Rehabil. 2017 Jan/Feb;32(1):E1-E7. doi:10.1097/HTR.0000000000000229. PubMed PMID: 27022962.

Elmasry H, Gubata ME, Packnett ER, Niebuhr DW, Cowan DN. **Risk factors for disability retirement among active duty Air Force personnel.** Mil Med. 2014;179(1):5-10.  
<https://doi.org/10.7205/MILMED-D-13-00280>

Gubata ME, Cowan DN, Bedno SA, Urban N, Niebuhr DW. **Self-reported physical activity and preaccession fitness testing in U.S. Army applicants.** Mil Med. 2011;176(8):922-5.

Gubata ME, Oetting AA, Niebuhr DW, Cowan DN. **Accession medical waivers and deployment duration in the U.S. Army.** Mil Med. 2013;178(6):625-30. <https://doi.org/10.7205/MILMED-D-13-00010>.

Gubata ME, Oetting AA, Weber NS, Feng X, Cowan DN, Niebuhr DW. **A noncognitive temperament test to predict risk of mental disorders and attrition in U.S. Army recruits.** Military medicine. 2012;177(4):374-9.

Gubata ME, Packnett ER, Blandford CD, Piccirillo AL, Niebuhr DW, Cowan DN. **Trends in the Epidemiology of Disability Related to Traumatic Brain Injury in the US Army and Marine Corps: 2005 to 2010.** J Head Trauma Rehabil. 2014;29(1):65-75. <https://doi.org/10.1097/HTR.0b013e318295f590>.

Gubata ME, Packnett ER, Cowan DN. **Temporal trends in disability evaluation and retirement in the Army, Navy, and Marine Corps: 2005-2011.** Disabil Health J. 2014;7(1):70-7.  
<https://doi.org/10.1016/j.dhjo.2013.08.003>

Gubata ME, Packnett ER, Feng X, Cowan DN, Niebuhr DW. **Pre-enlistment hearing loss and hearing loss disability among U.S. soldiers and marines.** Noise & Health. 2013;15(66):289-95. <https://doi.org/10.4103/1463-1741.116547>

Gubata ME, Piccirillo AL, Packnett ER, Cowan DN. **Military occupation and deployment: descriptive epidemiology of active duty U.S. Army men evaluated for a disability discharge.** Mil Med. 2013;178(7):708-14. <https://doi.org/10.7205/MILMED-D-12-00542>.

Gubata ME, Piccirillo AL, Packnett ER, Niebuhr DW, Boivin MR, Cowan DN. **Risk Factors for Back-Related Disability in the US Army and Marine Corps.** Spine. 2014;39(9):745-53. <https://doi.org/10.1097/BRS.0000000000000272>

Gubata ME, Urban N, Cowan DN, Niebuhr DW. **A prospective study of physical fitness, obesity, and the subsequent risk of mental disorders among healthy young adults in army training.** J Psychosom Res. 2013;75(1):43-8. <https://doi.org/10.1016/j.jpsychores.2013.04.003>.

Jankosky C, Niebuhr DW, Powers TE, Krauss MR. **Attrition of military enlistees with a medical waiver for chronic headache, 1995-2000.** Military Medicine. 2006;171(12):1235-8.

Krauss MR, Garvin NU, Boivin MR, Cowan DN. **Excess Stress Fractures, Musculoskeletal Injuries, and Health Care Utilization Among Unfit and Overweight Female Army Trainees.** The American Journal of Sports Medicine. 2017;45(2):311-6. <https://doi.org/10.1177/0363546516675862>

Krauss MR, Russell RK, Powers TE, Li Y. **Accession standards for attention-deficit/hyperactivity disorder: a survival analysis of military recruits, 1995-2000.** Mil Med. 2006 Feb;171(2):99-102. PubMed PMID: 16578975.

Li Y, Weber NS, Fisher JA, Yolken RH, Cowan DN, Larsen RA, Niebuhr DW. **Association between antibodies to multiple infectious and food antigens and new onset schizophrenia among US military personnel.** Schizophr Res. 2013 Dec;151(1-3):36-42. doi: 10.1016/j.schres.2013.10.004. Epub 2013 Oct 17. PubMed PMID: 24139899. <https://doi.org/10.1016/j.schres.2013.10.004>.

Li Y, Yolken R, Cowan DN, Boivin MR, Liu T, Niebuhr DW. **Biomarker identification and effect estimation on schizophrenia - a high dimensional data analysis.** Front Public Health. 2015 May 5;3:75. doi: 10.3389/fpubh.2015.00075. eCollection 2015. PubMed PMID: 26000271; PubMed Central PMCID: PMC4419552. <https://doi.org/10.3389/fpubh.2015.00075>.

Millikan AM, Niebuhr DW, Brundage M, Powers TE, Krauss MR. **Retention of mild asthmatics in the Navy (REMAIN): A low-risk approach to giving mild asthmatics an opportunity for military service.** Mil Med. 2008;173(4):381-7.

Niebuhr DW, Completo JD, Helfer TM, Chandler DW. **A comparison of the military entrance processing station screening audiogram with the Defense Occupational and Environmental Health Readiness System reference audiogram at Fort Sill, Oklahoma, in 2000.** Mil Med. 2006;171(2):117-21.

Niebuhr DW, Gubata ME, Oetting AA, Weber NS, Feng X, Cowan DN. **Personality Assessment Questionnaire as a pre-accession screen for risk of mental disorders and early attrition in U. S. Army recruits.** Psychological Services. 2013;10(4):378-85.

Niebuhr DW, Krampf RL, Mayo JA, Blandford CD, Levin LI, Cowan DN. **Risk factors for disability retirement among healthy adults joining the U.S. Army.** Mil Med. 2011;176(2):170-5.

Niebuhr DW, Li Y, Cowan DN, Weber NS, Fisher JA, Ford GM, Yolken R. **Association between bovine casein antibody and new onset schizophrenia among US military personnel.** Schizophr Res. 2011 May;128(1-3):51-5. doi:10.1016/j.schres.2011.02.005. Epub 2011 Mar 4. PubMed PMID: 21376538.  
<https://doi.org/10.1016/j.schres.2011.02.005>.

Niebuhr DW, Li Y, Powers TE, Krauss MR, Chandler D, Helfer T. **Attrition of U.S. military enlistees with waivers for hearing deficiency, 1995-2004.** Mil Med. 2007;172(1):63-9.

Niebuhr DW, Millikan AM, Cowan DN, Yolken R, Li Y, Weber NS. **Selected infectious agents and risk of schizophrenia among U.S. military personnel.** Am J Psychiatry. 2008 Jan;165(1):99-106. Epub 2007 Dec 17. PubMed PMID: 18086751. <https://doi.org/10.1176/appi.ajp.2007.06081254>.

Niebuhr DW, Page WF, Cowan DN, Urban N, Gubata ME, Richard P. **Cost-effectiveness analysis of the U.S. Army Assessment of Recruit Motivation and Strength (ARMS) program.** Mil Med. 2013;178(10):1102-10. <https://doi.org/10.7205/MILMED-D-13-00108>.

Niebuhr DW, Powers TE, Krauss MR, Cuda AS, Johnson BM. **A review of initial entry training discharges at Fort Leonard Wood, MO, for accuracy of discharge classification type: fiscal year 2003.** Mil Med. 2006;171(11):1142-6.

Niebuhr DW, Scott CT, Li Y, Bedno SA, Han W, Powers TE. **Preacquisition fitness and body composition as predictors of attrition in U.S. Army recruits.** Mil Med. 2009;174(7):695-701.

Niebuhr DW, Scott CT, Powers TE, Li YZ, Han WW, Millikan AM, et al. **Assessment of recruit motivation and strength study: Preacquisition physical fitness assessment predicts early attrition.** Mil Med. 2008;173(6):555-62.

Oetting AA, Garvin NU, Boivin MR, Cowan DN. **Non-Cognitive Personality Assessment and Risk of Injuries Among Army Trainees.** Am J Prev Med. 2017;52(3):324-30.  
<https://doi.org/10.1016/j.amepre.2016.08.025>

Otto WC, Niebuhr DW, Powers TE, Krauss MR, McVeigh FL, Tarbett AK. **Attrition of military enlistees with a medical waiver for myopia, 1999-2001.** Mil Med. 2006;171(11):1137-41.

Packnett E, Niebuhr D, Bedno S, Cavicchia M, Cowan D. **Body Mass Index, Attrition, and Reasons for Separation During the First Year of Army Service.** Obesity. 2009;17:S309-S.

Packnett ER, Elmasry H, Toolin CF, Cowan DN, Boivin MR. **Epidemiology of Major Depressive Disorder Disability in the US Military: FY 2007-2012.** J Nerv Ment Dis. 2017;205(9):672-8.  
<https://doi.org/10.1097/NMD.0000000000000692>.

Packnett ER, Gubata ME, Cowan DN, Niebuhr DW. **Temporal Trends in the Epidemiology of Disabilities Related to Posttraumatic Stress Disorder in the US Army and Marine Corps From 2005-2010.** J Trauma Stress. 2012;25(5):485-93. <https://doi.org/10.1002/jts.21743>.

Packnett ER, Niebuhr DW, Bedno SA, Cowan DN. **Body mass index, medical qualification status, and discharge during the first year of US Army service.** Am J Clin Nutr. 2011;93(3):608-14.  
<https://doi.org/10.3945/ajcn.110.007070>.

Page WF, Chubb M, Feng XS, Fan LY, Li YZ, Weber NS, et al. **National Estimates of Seroincidence and Seroprevalence for Herpes Simplex Virus Type 1 and Type 2 Among US Military Adults Aged 18 to 29 Years.** Sex Transm Dis. 2012;39(4):241-50. <https://doi.org/10.1097/OLQ.0b013e3182401a17>.

Paris RM, Bendo SA, Krauss MR, Keep LW, Rubertone MV. **Weighing in on type 2 diabetes in the military - Characteristics of US military personnel at entry who develop type 2 diabetes.** Diabetes Care. 2001;24(11):1894-8.

Piccirillo AL, Gubata ME, Blandford CD, Packnett ER, Cowan DN, Niebuhr DW. **Temporary Disability Retirement Cases: Variations in Time to Final Disposition and Disability Rating by Service and Medical Condition.** Mil Med. 2012;177(4):417-22.

Piccirillo AL, Packnett ER, Boivin MR, Cowan DN. **Epidemiology of psychiatric disability without posttraumatic stress disorder among U.S. Army and Marine Corps personnel evaluated for disability discharge.** J Psychiatr Res. 2015;71:56-62. <https://doi.org/10.1016/j.jpsychires.2015.09.010>.

Piccirillo AL, Packnett ER, Cowan DN, Boivin MR. **Epidemiology of asthma-related disability in the U.S. Armed Forces: 2007-2012.** J Asthma. 2016;53(7):668-78. <https://doi.org/10.3109/02770903.2016.1154070>

Piccirillo AL, Packnett ER, Cowan DN, Boivin MR. **Risk factors for disability discharge in enlisted active duty Army soldiers.** Disabil Health J. 2016 Apr;9(2):324-31. doi: 10.1016/j.dhjo.2015.11.005. Epub 2015 Nov 23. PubMed PMID: 26905973 <https://doi.org/10.1016/j.dhjo.2015.11.005>.

Schwarz E, Guest PC, Rahmoune H, Martins-de-Souza D, Niebuhr DW, Weber NS, Cowan DN, Yolken RH, Spain M, Barnes A, Bahn S. **Identification of a blood-based biological signature in subjects with psychiatric disorders prior to clinical manifestation.** World J Biol Psychiatry. 2012 Dec;13(8):627-32. doi: 10.3109/15622975.2011.599861. Epub 2011 Sep 22. PubMed PMID: 21936765. <https://doi.org/10.3109/15622975.2011.599861>.

Schwarz E, Izmailov R, Spain M, Barnes A, Mapes JP, Guest PC, Rahmoune H, Pietsch S, Leweke FM, Rothermundt M, Steiner J, Koethe D, Kranaster L, Ohrmann P, Suslow T, Levin Y, Bogerts B, van Beveren NJ, McAllister G, Weber N, Niebuhr D, Cowan D, Yolken RH, Bahn S. **Validation of a blood- based laboratory test to aid in the confirmation of a diagnosis of schizophrenia.** Biomark Insights. 2010 May 12;5:39-47. PubMed PMID: 20520744; PubMed Central PMCID: PMC2879227.

Sikorski C, Emerson MA, Cowan DN, Niebuhr DW. **Risk Factors for Medical Disability in US Enlisted Marines: Fiscal Years 2001 to 2009.** Mil Med. 2012;177(2):128-34.

Urban N, Boivin MR, Cowan DN. **Fitness, obesity and risk of asthma among Army trainees.** Occup Med (Lond). 2016 Oct;66(7):551-7. doi: 10.1093/occmed/kqw081. Epub 2016 Jul 7. PubMed PMID: 27387918. <https://doi.org/10.1093/occmed/kqw081>

Weber NS, Cowan DN, Bedno SA, Niebuhr DW. **Descriptive epidemiology of bipolar I disorder among United States military personnel.** Mil Med. 2010 Apr;175(4):247-51. PubMed PMID: 20446499.

Weber NS, Cowan DN, Millikan AM, Niebuhr DW. **Psychiatric and general medical conditions comorbid with schizophrenia in the National Hospital Discharge Survey.** Psychiatr Serv. 2009 Aug;60(8):1059-67. doi: 10.1176/appi.ps.60.8.1059. PubMed PMID: 19648193. [https://doi.org/10.1176/ps.62.10.pss6210\\_1152](https://doi.org/10.1176/ps.62.10.pss6210_1152).

Weber NS, Fisher JA, Cowan DN, Postolache TT, Larsen RA, Niebuhr DW. **Descriptive epidemiology and underlying psychiatric disorders among hospitalizations with self-directed violence.** PLoS One. 2013;8(3):e59818. doi:10.1371/journal.pone.0059818. Epub 2013 Mar 26. PubMed PMID: 23555791; PubMed Central PMCID: PMC3608546. <https://doi.org/10.1371/journal.pone.0059818>.

Weber NS, Gressitt KL, Cowan DN, Niebuhr DW, Yolken RH, Severance EG. **Monocyte activation detected prior to a diagnosis of schizophrenia in the US Military New Onset Psychosis Project (MNOPP).** Schizophr Res. 2018 Jan 5. pii: S0920-9964(17)30768-5. doi: 10.1016/j.schres.2017.12.016. [Epub ahead of print] PubMed PMID: 29310912; PubMed Central PMCID: PMC6033683. <https://doi.org/10.1016/j.schres.2017.12.016>.

Weber NS, Larsen RA, Yolken RH, Cowan DN, Boivin MR, Niebuhr DW. **Predictors of the Onset of Schizophrenia in US Military Personnel.** J Nerv Ment Dis. 2015 May; 203(5):319-24. doi: 10.1097/NMD.000000000000285. PubMed PMID: 25919381. <https://doi.org/10.1097/NMD.000000000000285>.