Physical readiness tests in the military have seen little, if any, adaptation, since they were instituted in the late 1970s. Substantial increases in the presence of women in the U.S. Armed Forces, means this lack of adaptation and research has presented a gap in the body of knowledge regarding the appropriateness of current Physical Readiness Tests in evaluating fitness levels for female soldiers. Additionally, current Physical Readiness tests are inherently biased toward women given the current testing protocols. This research addresses this issue by investigating the efficacy of load carriage to eliminate mass bias towards females found within the current Physical Readiness Tests of the U.S. Military. The study identified 35 research participants who fit the current female military demographics to perform fitness testing which involved push-ups, curl-ups, and a 1.5 mile timed run. The research methodology required each participant to perform this series of physical activities both with and without weighted vests to determine if the treatment had an overall effect on the correlation between weight and performance. Findings showed that there was a significant decrease in correlation for all component exercises of the fitness testing which concludes the weighted vests did indeed mitigate the bias toward female participants.

Research based recommendations were made for the modification and application of this load carriage technique in larger studies and for continued research in the realm of Physical Readiness pertaining to women in the military.

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The public is welcome to attend.